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TROPICAL GROUNDS BOOK and CATALOG



Business Rules



ALL prices in this catalog are NET delivered to railway agent, packing free, purchaser to pay cost of transportation, except where otherwise specifically noted. If there is no agent at point of destination, requiring prepayment of express charges, or when the relatively small size of the order makes parcel post service more practicable, or when shipping to foreign countries, the following charges for such prepayment are made:

For prepayment of small packages by mail (or express shipments to points where there is no agent), Florida customers must add 10 per cent to the total value of the plants. Outside of Florida and east of the Mississippi River add 20 per cent. West of the Mississippi River add 30 per cent. To foreign countries, add 30 per cent.

TERMS. Cash with order. Remit in any safe way, either by Postal or Express Money Order on Oneco, bank draft or personal check. Currency by open mail is unsafe. *Foreigners may remit by International Postoffice Order on Bradenton, Fla., or by bank exchange.*

In applying prices, 5 of a variety will be sold at the 10 rate, 40 at the 100 rate, and 400 at the 1,000 rate. This applies to single varieties only and not assorted plants. Please note.

GUARANTEEING PLANTS. This is not done by any reputable nurseryman unless he charges prices sufficiently high to more than offset any possible loss. When good stock is received in good condition, no difficulty should be experienced in getting it to grow and do well unless the conditions are not favorable, and it is obviously not just or logical for the nurseryman to have to assume responsibility for cultural failures!

And it would also hardly be fair to the customer who takes proper care of stock and who understands the requirements of different plants, to charge him a price higher than normal merely to protect the nurseryman from losses incurred by guaranteeing stock to careless, incompetent, or unscrupulous persons. The logic of this should appeal to any sound business judgment.

OUR RESPONSIBILITY. We exercise the greatest care to have our plants *true to label*, both as a matter of policy and because deliberate carelessness or deceit would be business suicide. We hold ourselves prepared, on proper proof of error on our part, to make replacement of any tree or plant that may prove otherwise up to the amount originally paid for them, but no more. To this the purchaser agrees when ordering from us.

While our responsibility for safety of plants ceases after delivery of the goods to carrier, in so far as liability for damage is concerned, still we feel a personal concern for the interests of our customers and are anxious that their rights should be protected. In the case of shipments by express or freight, from which forms of service collection of damage claims is possible, we will guarantee safe delivery of all nursery stock, or to collect any just claim provided consignee has the agent at destination endorse the extent of damage or loss on freight or express receipt. The same provision applies to overcharge; we keep accurate record of all shipments and if anyone suspects an overcharge, we will investigate same when they send agent's receipt and secure refund if such has been the case.

FILLING ORDERS. All orders are filled promptly. We ship with absolute safety to all parts of the world by parcel post, express, and freight. We exercise our best judgment when forwarding stock, whether by express or freight—in the former case using especially thin material—working for the best interests of each customer as to safety of delivery and least cost.

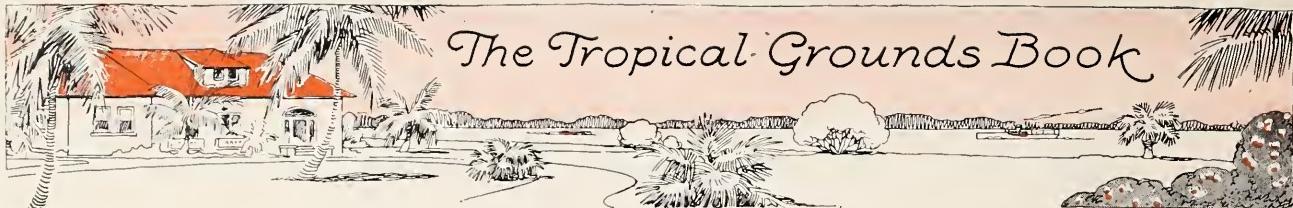
SUBSTITUTION. In ordering please state whether substitution will be permitted, as we feel at liberty, when no instructions accompany the order, to replace with other sorts as nearly similar as possible.

THIS PRESENT CATALOG abrogates all previous terms, conditions and prices. Authorized dealers desiring to buy *in quantity* should write us for our special *Trade List*. Annual catalog, usually ready the last of October, covers prices from November 1 to October 31 of following year.

TROPICAL GROUNDS BOOK *and* CATALOG

1923





Beautification of Grounds

LANDSCAPE gardening is the art of improving land for human use and enjoyment in such a manner as to combine the maximum of utility with the maximum of beauty."—F. A. Waugh.

Read that again. Simple, isn't it? Yet that very simplicity is deceptive—for while complexity conceals a multitude of errors, simplicity must be obviously correct in every detail. Anyone can scatter a conglomerate confusion of planting over any given area, creating a riot of form and a pandemonium of color, but it requires thought and training and artistic good taste to create studied, elegant simplicity.

The Home

And nowhere is the desirability for attractive surroundings of more vital importance than for the home. They should be the consummation of all the joy and gladness, all the beauty and refinement, all the love and spiritual influence of life.

"Men are so stupid, in the main, about these matters, that, if the majority of them had their own way, all would be as stiff and as meaningless as their own meagre black coats, without an atom of the graceful or romantic about them; nothing to awaken a spark of interest or stir a chord of feeling; nothing, in short, but downright, commonplace matter-of-fact. And they undertake to defend it—the logicians—on the ground of utility and the spirit of the age!"

As if trees did not bear lovely blossoms as well as good fruit; as if the sun did not give us rainbows as well as light and warmth; as if there were not still mocking birds and nightingales as well as ducks and turkeys."

—Downing.

The man, or woman, who cannot sense the predominant usefulness of beauty as well as the beauty of utility, is in a fair way of becoming spiritually shriveled and intellectually parched dry as the Sahara.

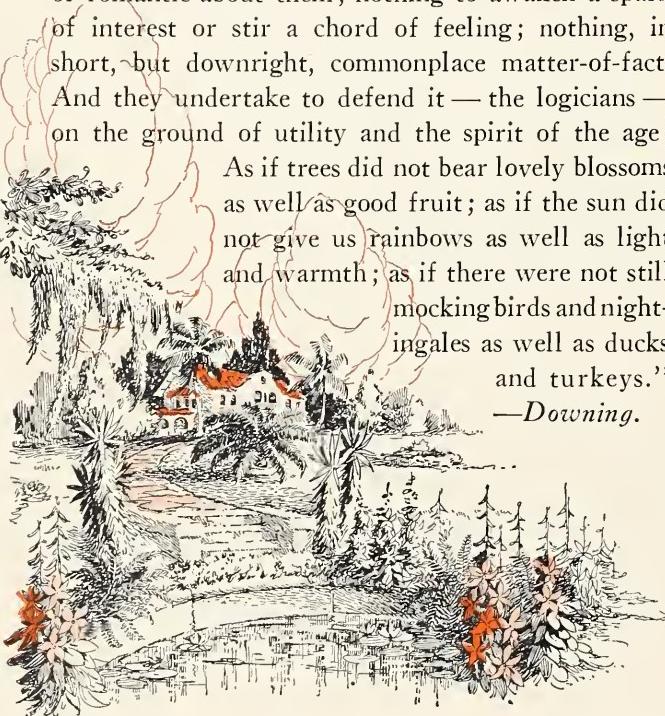
The Town

You know, a town or city is just like a great big family (or should be)—each home being a member of this "community family."

The city limits are the walls of this home—the parks are the living-room—the playgrounds are the nursery—the railroads, wharfs, and highways of approach are the doorways—the kitchen and dining-room are made up of the manufacturing and business districts—and in like fashion, all the elements of the home are duplicated in a large way in the town itself.

We don't let our living-room become encrusted in dirt and dust, nor do we fail to make it attractive with furniture and nice pictures—yet, how about our *town parks*? Nor do we bring our friends and visitors into our home through the back door by the trash cans and garbage receptacles—yet, how do we bring in our friends and visitors to the town?—too frequently through the "quarters" or other equally dilapidated and uninviting sections! We provide toys for our "kiddies," but how about adequate and attractive play areas and athletic equipment for out-of-door recreation and healthy physical development?

In short, we become so accustomed to "seeing" that we *don't see* what we *do see!* Or, in other words, we see the ugly, unsightly, or even just unattractive things about town so much, day in and day out, that our





senses become dulled and fail to react to the impressions actually received. Read a little on civic relationships and usefulness and the next time you are around town make a careful, analytical survey, jotting down the things that should and could be altered to good advantage without prohibitive expense — you are going to be astonished!

The Landscape Architect

But home and town planning for increased beauty, efficiency, and usefulness is an art and a science in itself! The average business or professional man or woman around town is not especially qualified for this work. Then what should be done about it?

During the past forty years there has been growing up in the State an organization of trained horticulturists who have made all this field their special study—just as the doctor studies the ramifications of the human system and the relationships of disease, and the lawyer studies jurisprudence and the intricacies of legal procedure.

The field for their labors has expanded and their work been multiplied many times. Special education and training in horticulture and landscape architecture has fitted the members of the organization for larger and more successful and more useful work than any others in the same field. A careful study of this manual on tropical horticulture will readily make this clear!

But do not mistake this service—it is not of the "Blue Trading Stamp" variety so common amongst a certain type of organizations. It is professional, of high order and usefulness, and fully entitled to reasonable compensation for the character of work undertaken.

We are in position to handle every phase of your plans from the making of location and topographical

surveys to finished color "show plans," blue-prints, and specifications. But especially do we urge that you consult with us before any construction work is done on your property. You can be saved much trouble and expense by our carefully prepared plans for grading, planting and allied problems made in advance. Should you wish it, we can also furnish competent planting foremen to take charge of the planting work, assuring the greatest measure of success.

Civic Improvements and Real Estate Developments

The past few years has seen a stirring of interest on the part of Florida towns and cities in the line of civic activities. Realizing the great need for civic beauty and efficiency, there is a very strong desire on the part of progressive citizens for adequate street planting, playgrounds, developed city parks, civic centers, and other public grounds, all necessitating expert advice and assistance.

This is the logical channel of development for any enterprising community and in as much as we have made a special study of this class of work, it will be well worth the while of town councils, boards of trade, women's clubs, real estate organizations, and any other interested parties to consult with us along these lines.

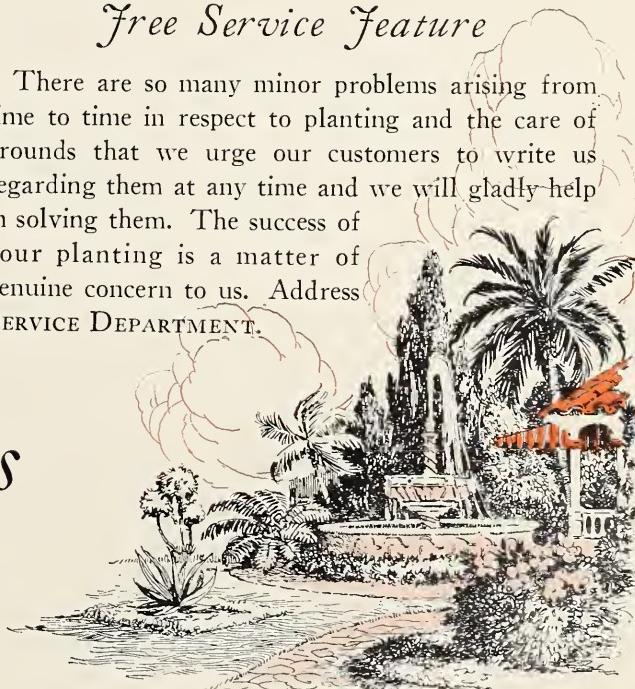
Free Service Feature

There are so many minor problems arising from time to time in respect to planting and the care of grounds that we urge our customers to write us regarding them at any time and we will gladly help in solving them. The success of your planting is a matter of genuine concern to us. Address SERVICE DEPARTMENT.

Reasoner Brothers

DEPARTMENT OF LANDSCAPE DESIGN

Oneco, Florida, U.S.A.





The Tropical Grounds Book

Add Beauty to Your Home Surroundings Economically

Special Offering of Collections

You may be puzzled to know just what to buy to secure the best effect for your property—and where to plant it if you do. Perhaps this is because you are relatively a newcomer to Florida, or because you just haven't made any special study of tropical plant life. Just at that point is where we can help you. For with forty years of experience, study, investigation, and experiment in this field alone, we are in better position to help you than anyone else. To that end we have compiled a carefully prepared collection of plants fitted to general needs and which can be adapted to any special condition. These make possible for you not only a time-saving but a money-saving investment as well.

Look these collections over carefully and pick out one or more that most closely approximate your desires. Then when ordering, write us about it. If you have some special preferences in certain instances, say so, and we will try and incorporate them in your collections when possible. But always we will be guided by our own judgment as to adaptability of the plants to your location.

Describe your soil conditions when you write, and the general location of your property—all these things will be considered in order that we can make the most intelligent selection possible.

But perhaps you are in doubt as to where to plant on your grounds. Very well—when you order, send us a sketch of your layout, drawn roughly to scale, or write us for a sheet of cross-section paper on which to make a sketch. Also give color of house and any other information that would be helpful. Your order will be held up until the locations have been determined.

DON'T HESITATE TO ASK FOR OUR ASSISTANCE.—That is one of our major duties. Our thoroughly grounded experience and training are at your disposal. If you fail to receive help it won't be our fault!

Order now in perfect assurance that the undertaking will be a pleasure to you — and equally profitable!

(In making up collections we will send as many different kinds in each group as possible, but in larger collections cannot guarantee them all different.)

GENERAL HOME COLLECTIONS

SCOUT COLLECTION

Buy this for your boy or girl and let them call it their own—share with them the pleasure of caring for it.

1 Palm (for the corner of the house)	worth \$ 1.00
1 Shade Tree (to shade the porch)	" 1.00
1 Bamboo (for the corner of the lawn)	" .50
1 Fruit Tree (for the rear)	" 1.15
3 Shrubs (for the house foundation)	" .75
3 Shrubs (for the lawn border)	" 1.05
2 Vines (for the porch)	" .70
Total value	\$ 6.15
Our special price	\$ 5.00

SEMINOLE COLLECTION

Just the thing for the small town lot.

4 Palms (2 for the lawn and 2 for the porch)	worth \$ 4.00
1 Shade Tree (near the house)	" .50
1 Shade tree (for the lawn)	" 1.00
2 Bamboos (for the lawn)	" 1.00
1 Fruit tree (for the rear)	" 2.00
1 Fruit tree (for the rear)	" 1.15
10 Shrubs (for the house foundation)	" 3.50
2 Shrubs (for the lawn)	" 1.00
2 Vines (for planting on large trees or palms)	" .70
1 Vine (for the porch)	" .50
Total value	\$15.35
Our special price	\$12.50

OSCEOLA COLLECTION

Adapted to any home.

3 Palms (for the lawn)	worth \$ 3.00
1 Palm (for the porch)	" 2.50
2 Shade trees (for rear of the house)	" 1.00
2 Shade trees (for the lawn)	" 2.00
2 Bamboos (for the lawn corners)	" 2.00
2 Fruit trees (for rear of the house)	" 1.00
2 Fruit trees (for rear of the house)	" 2.00
1 Fruit tree (for rear of the house)	" 2.00
6 Shrubs (for front foundation)	" 1.50
6 Shrubs (for side foundations)	" 2.10
4 Shrubs (for lawn)	" 2.00
3 Vines (for trees or palms)	" 1.05
2 Vines (for porch)	" 1.00
6 Window-box plants	" .90

Total value	\$24.05
Our special price	\$20.00

Royal Palm Nurseries, Oneco, Fla.



GROUP COLLECTIONS

(If our division into lawn and porch use does not meet your needs, write us about it.)

PALM COLLECTIONS

(If you wish some palms for indoor or porch decoration, so state.)

No. 1.	6 Palms (4 for lawn, 2 for porch)	worth \$ 6.00
	Our special price	\$ 5.00
No. 2.	6 Palms (4 for lawn, 2 for porch)	worth \$15.00
	Our special price	\$12.50

No. 3.	8 Palms (5 for lawn, 3 for porch)	worth \$25.00
	Our special price	\$20.00

PALM-AND-TREE COLLECTIONS

No. 1.	3 Palms (2 for lawn, 1 for porch)	worth \$ 3.00
	3 Shade trees (for lawn)	" 3.00
	Total value	\$ 6.00

Our special price	\$ 5.00
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No. 2.	5 Palms (3 for lawn, 2 for porch) and 3 Shade trees (for lawn)	worth \$15.00
	Our special price	\$12.50

No. 3.	5 Palms (3 for lawn, 2 for porch), 5 Shade trees (3 for rear of house, 2 for lawn), 3 Bamboos (for corners of grounds)	worth \$25.00
	Our special price	\$20.00

SHRUB COLLECTIONS

No. 1.	18 Shrubs (12 for house foundation, 6 for lawn)	worth \$ 6.30
	Our special price	\$ 5.00
No. 2.	30 Shrubs (18 for house foundation, 12 for lawn),	worth \$15.00
	Our special price	\$12.50
No. 3.	60 Shrubs (25 for house foundations, 25 for lawn, 10 for special purposes)	worth \$25.00
	Our special price	\$20.00

ROSES

(Ready in November)

Don't forget to write us for any particulars when you order.

Novelty Collection—Five 2-year heavy plants in the newer varieties, worth	\$ 6.25
Our special price	\$ 5.00

The Florist's Dozen—12 plants in heavy 2-year grade, choice varieties for cut flowers, worth	\$ 8.40
Our special price	\$ 7.50

Favorite Collection—18 Old-time favorites, strong 2-year stock, worth	\$12.60
Our special price	\$10.00

Rose Garden Collection—40 plants, heavy 2-year grade, carefully selected sorts, worth	\$28.00
Our special price	\$25.00

VINE COLLECTIONS

No. 1.	10 Vines (3 for porch, 5 for trees and fences, 2 for lattice), worth	\$ 3.50
	Our special price	\$ 3.00
No. 2.	15 Vines (3 for porch, 8 for trees and fences, 4 for lattice), worth	\$ 6.00
	Our special price	\$ 5.00

PORCH-BOX COLLECTIONS

Give these collections special attention—they will go a long way toward making your home more attractive.

No. 1.	25 Choice assorted plants of great decorative value, worth	\$ 7.50
	Our special price	\$ 5.00
No. 2.	50 Choice assorted plants of great decorative value, worth	\$15.00
	Our special price	\$12.50
	Total value	\$ 25.00

FERN COLLECTIONS

These are all choice decorative sorts of special value for boxes, tubs, shady borders, etc.

No. 1.	8 Strong plants, worth	\$ 2.50
	Our special price	\$ 2.00
No. 2.	15 Strong plants, worth	\$ 6.00
	Our special price	\$ 5.00

BULB COLLECTIONS

Bulbs are, perhaps, amongst the most neglected items of our garden subjects. Delightful effects can be created with them not only in solid beds but more especially when introduced as small groups in the general mass plantings, borders, under trees, along water courses and lakes, and for a variety of interesting uses.

No. 1.	50 Bulbs, worth	\$ 6.50
	Our special price	\$ 6.00
No. 2.	60 Extra heavy grade Bulbs, worth	\$13.00
	Our special price	\$10.00

No. 3.	100 Choice Bulbs, worth	\$24.00
	Our special price	\$18.00

SPECIAL CHRISTMAS-BOX BULB COLLECTIONS

Send one to mother or some friend—they will appreciate nothing better.

Collection "A"	2 large size Chinese Sacred Lilies,	
	3 Paper White Narcissus; total value	\$ 1.25
	Our special price, postpaid anywhere in Florida	\$ 1.00
	Our price, postpaid elsewhere	\$ 1.25

Collection "B"	5 Sacred Lilies,	
	10 Paper White Narcissus,	
	5 Soleil d'Or Narcissus; total value	\$ 3.50
	Our special price, postpaid anywhere in Florida	\$ 3.00
	Our special price, postpaid elsewhere	\$ 3.50

FLORIDA HOME-GROVE COLLECTIONS

These are of special value to the owner of the average town lot and small country home where economy in space is an important factor. Don't forget that we are here to advise you at all times.

Citrus Collection No. 1	10 Trees—Orange, Grapefruit and Tangerine, worth	\$15.00
	Our special price	\$12.00
Citrus Collection No. 2	16 Assorted Citrus Trees in variety, worth	\$24.00
	Our special price	\$18.00

General Fruit Collection No. 1	20 Fruit trees and plants, worth	\$15.00
	Our special price	\$12.00

General Fruit Collection No. 2	30 Fruit trees and plants, worth	\$25.00
	Our special price	\$20.00

The Tropical Grounds Book

Planting and Potting Suggestions

PREPARED FOR PLANTING.—Newly cleared land, especially in Florida, is "sour" (acid) to a greater or less degree. This may be corrected, if not too sour, by cultivation, opening up the soil and allowing it to become thoroughly aerated before planting. Otherwise, lime should be applied in quantity, depending upon the degree of acidity. No specific amounts can be prescribed because of wide range of variation in soils. In cases where the planter is in doubt, the matter should be taken up with the state chemist.

In making holes in which to set the individual plants, remember that the larger the better, two to three feet across being small enough for ordinary pot plants, though, of course, smaller holes will do if the plants are properly set out and otherwise cared for. For larger specimens, make the holes proportionately larger. When planting, fill the hole with top-soil in which is incorporated from several shovelfuls to a wheelbarrow load of well-rotted manure, past the burning stage, depending upon plant, soil conditions, etc.

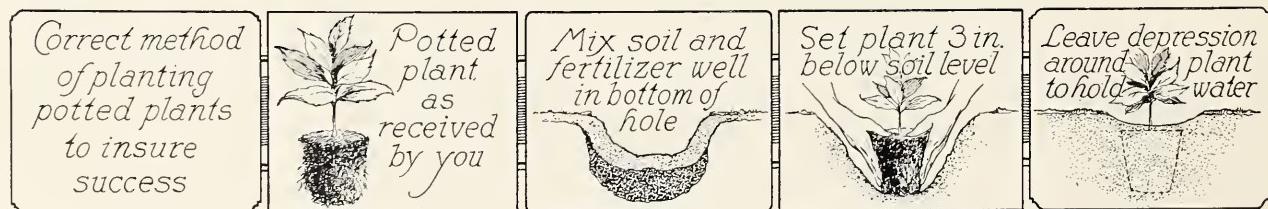
Florida soils are naturally deficient in humus (decomposed organic matter) and for that reason manure or some other form of humus is preferable where it can be obtained. Experience shows that manure and water will produce splendid results on the poorest soils. In the deep sandy soils of South Central Florida, on the so-called "sand hills," this has been demonstrated by remarkably successful plantings. In addition to humus as fertilizer, blood-and-bone, tankage and other fertilizers are valuable organic forms that are readily available.

ARRIVAL OF PLANTS. Plants should be removed from the package or box as soon as possible after reaching destination. Frequently, however, it is impossible to plant them out at once, in which case see that roots are wet, then stand the rolls of plants around in cool, shady places; seeing that they do not suffer for want of water. They can remain this way several days without injury. Large trees and shrubs from open ground may be simply "heeled-in" (planted in trenches) on the shady side of a building, the roots well watered, and, if not set permanently for a week afterward, they will be all the better for it. Should any of the plants appear wilted, they should be placed in luke-warm water, with the packing moss about their roots, and in half an hour they will be ready to pot. This treatment will renew their vigor whether actually wilted or not.

SETTING. Assuming that the soil has been put in proper condition, the plants and trees can be set in their places at once. If the plants are from pots, set them considerably deeper than they were in the pot, the distance depending on size of plant, etc. Set without disturbing the roots—never try to straighten out the roots of pot-grown plants. Field plants, when dug, lose the larger proportion of their feeding roots and have to be cut back proportionately, and, in some cases, planted several inches deeper than they stood in the nursery rows. (Exception is here taken especially to citrus stock.) The roots should be trimmed with a sharp knife, and, when planted, allowed plenty of room to assume a natural position. Pack the soil well around the roots with hands and feet—this is very important. Use plenty of water. Always mulch the ground around with grass, straw, or similar materials. Some more tender plants require shade for some time and all plants are better for shade for the first few days. **BUT THIS ABOVE ALL:** See that they never lack for water until established.

POTTING. While plants are small, use pots one size larger than they were removed from. As they fill up the pots with roots they should be potted on into sizes next larger. When small, it is necessary only to place a piece of broken pot over the hole in the bottom, but when the pots run up to 5- and 6-inch sizes and larger, they should have several pieces of charcoal or other coarse drainage material. To prevent soil from entirely filling this up, place a piece of well-rotted sod over the drainage material. Lack of proper drainage prevents free movement of water through the soil, which soon becomes sour; the roots die back and the plant suffers. Fill the pot to about half an inch or more of top with ball of roots and potting soil, the latter composed of good loam, sand, clay, if obtainable, and well-rotted manure, past the "burning" stage, with a small amount of chemical fertilizer such as comes prepared for the purpose. Place the plants in a sheltered position where they will not be exposed to wind and sun until they show signs of recuperation.

When you plant, don't forget the birds! Remember they like the fruits of *Carissa*, *Caryophyllus*, *Cestrum nocturnum*, *Coccolobis*, *Duranta*, *Eriobotrya*, *Eugenia uniflora*, *Ixora*, *Lantanas*, *Morus*, *Myrica*, *Phoenix* in variety, *Psidium*, *Raphiolepis*, *Solanum seaforthianum*, *Thrinax* in variety.



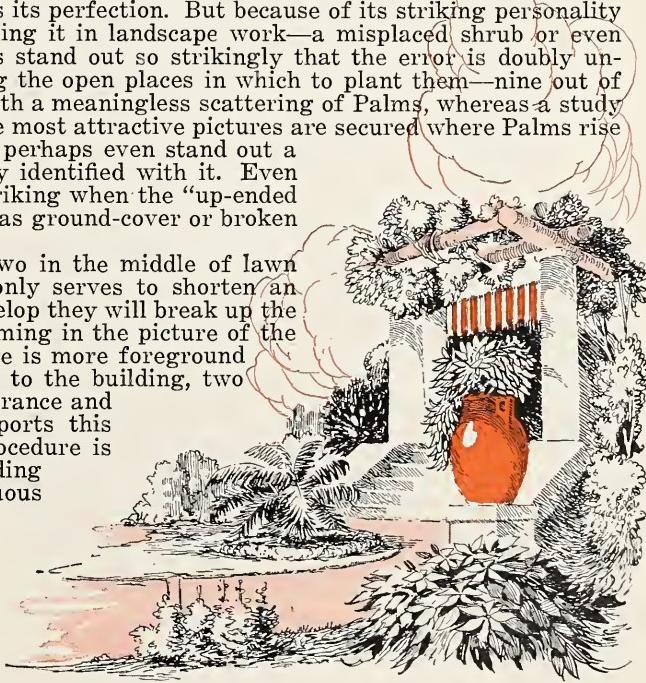


Do Not Plant Curved Drives or Walks to Lines of Palms—Introduce Them as Done Here at Miami—To Focus Short, Straight Vistas

Palms and Cycads

IN ALL the wide realm of the Tropics where Nature is most lavish in the display of her charms, no subject equals the Palm in lending character and distinction to the scene. And nowhere in this country is it possible to cultivate successfully so extensive a group of varieties as here in Florida. While the harder types can be grown throughout the southern section of the country, especially along the Gulf Coast and in the great Southwest, it is in Florida that the Palm reaches its perfection. But because of its striking personality it is exceptionally difficult to avoid mistakes in handling it in landscape work—a misplaced shrub or even tree will often be overlooked but badly misplaced Palms stand out so strikingly that the error is doubly unpardonable. The commonest of these faults is seeking the open places in which to plant them—nine out of ten people will break up the so valuable foreground with a meaningless scattering of Palms, whereas a study of tropical landscape repeatedly demonstrates that the most attractive pictures are secured where Palms rise in stately fashion out of masses of verdant foliage, or perhaps even stand out a little from such a background, yet more or less closely identified with it. Even when planted in large massed groups, they are most striking when the "up-ended feather duster" effect is relieved by contrasting foliage as ground-cover or broken groups of shrubbery.

Another too frequent error is planting a Palm or two in the middle of lawn spaces in front of the house on town lots—this not only serves to shorten an already too limited foreground, but when the Palms develop they will break up the view of the house into a series of panels instead of framing in the picture of the house as they should. On larger properties where there is more foreground and where there is a striking central entrance or core to the building, two stately Palms can be used to advantage, set near the entrance and framing it in, if the remainder of the planting supports this scheme. But in the first instance mentioned, such procedure is ruinous—rather plant them at the corner of the building or toward the rear where they may not be so conspicuous in early years but later will lend real charm and character to a usually flat and uninteresting sky-line. When planted in groups only, the same or similar kinds should be used together. Otherwise the effect will be confusing and lacking in dignity and singleness of purpose, as necessary in the landscape picture as with the painter's canvas.



The Tropical Grounds Book



Tropical Materials Poorly Arranged—Miami

Never Plant Curving Drives to Formal Rows of Palms. Such situations should be planted to grouped Palms or trees and massed shrubs—formal plantings of Palms in rows are most effective in short, straight vistas.

Special Notice. Our Palms are all pot- or tub-grown, except where noted otherwise, and may be shipped at any time of the year. For Florida planting the warmer months of the year are best—either in spring, if water is no consideration, or during the summer rainy season.

The Palm Is One of Our Specialties and we grow many thousands of plants annually. As we use no heat except for a few days in winter, they are healthy and stocky and in condition to ship at any time of the year. Make the ground very rich, and when once established they cannot be fertilized too heavily. Where dry, watering and mulching should be attended to carefully until plants are established. In the fall, suspend cultivation and fertilizing to give them opportunity to harden up for the winter. During spring and summer the fertilizer can be heavily nitrogenous, but an application rich in potash can be applied to advantage in early fall to help them harden up well. In pots, soil should be rich and drainage perfect. See potting suggestions on page 6; these are important.

Palms in the house need some sunshine, and will do best with the morning and afternoon sunlight every day, only avoiding the heat of noon. They will exist and live for years with but little light, but are not healthy, nor will they grow fast. An even, rather high temperature suits them best, without drafts of air. The hardier sorts will be able to stand a temperature of 60 degrees Fahr. and do very well, but below this they will not make much growth. Even an occasional drop to 45 degrees Fahr. will not kill them, but they would prefer 70 degrees Fahr. most of the time. In summer, Palms will appreciate plunging in the ground to the tops of the pots, in a half-shady, moist situation. Sponge the leaves occasionally to keep them clean and free from insects.

Explanation of Symbols.—* Those hardy enough to grow outdoors along the Gulf Coast or southern California, etc., or in a temperature not lower than 15 degrees Fahr. ** Those less hardy, being able to stand ordinarily a temperature of 26 degrees Fahr. *** Tropical species not being able to stand anything beyond a faint frost. D. Especially recommended for cultivation in greenhouses or for house decoration, although all sorts named may be thus grown if given suitable temperature.

All Measurements Are Taken in Natural Position Above the Pots



Group I. For Street Planting and Parkways, Instead of Shade Trees

The only use of Palms on streets is for their decorative value — as shade trees they will not answer. Because of a popular desire to get tropical effects in our towns, streets are frequently planted to Palms instead of shade trees and, while this is open to serious objection, when it is done it is most essential that it should be done properly. Never plant more than one species in a row to a street—anything else shows absence of vision and artistic conception of the value of Palms for this purpose. Town councils or other civic organizations would do well to consult with authorities before making indiscriminate plantings. We always welcome inquiry by letter, but would much prefer a personal interview or, better yet, a personal inspection of the problem under consideration. Too much thought and study cannot be given this matter.

Following are subjects we especially recommend:

COCOS PLUMOSA. Plum Coconut. ** D. Brazil. Wherever the Royal Palm is hardy it is without a rival for street work as well as for lawns. Unfortunately, this area in Florida is very limited so that it is necessary to use the nearest substitute for the Royal over most of peninsular Florida. This is the Plumy Coconut so widely used in California as well as in this state. The trunk, erect and column-like, reaches a height of 40 feet or more and is crowned by a plump crest of long, feathery, swaying dark green leaves, making a formal and very striking picture. While a quick-growing subject under good culture, we do not advise planting it where it is going to be neglected the first few years of its growth, as has so often been the case. Some Palms will stand a surprising amount of neglect when small, but the Plumy Coconut is not of that class.

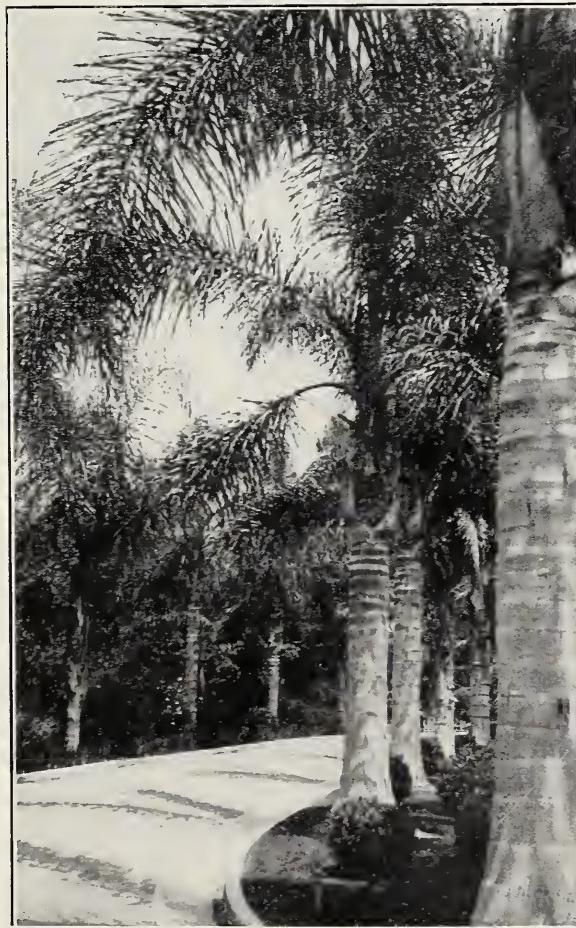
	Each	10	100
12 to 15 in.....	\$0.25	\$2.00	\$18.00
18 to 24 in.....	.50	4.50	40.00
2 to 3 ft.....	1.00	9.00	85.00
4 to 5 ft.....	2.00	18.00	

Field-grown, balled, \$3.00 to \$4.50 each.

OREODOXA BORINQUENA. Porto Rican Royal Palm *** This tree closely resembles the common Royal Palm of extreme South Florida and Cuba, O. regia. Young plants, 25 cts. each, \$2 for 10; larger, 35 cts.

O. REGIA. Royal Palm. *** Cuba. Without exception this is the most regal Palm of the tropical garden and wherever hardy in the state should receive special attention, both for street and park and private grounds planting. Of exceedingly rapid growth, it reaches a height of 125 feet, with a straight, columnar trunk, gray in color and swollen at the base. The foliage crown consists of giant leaves 10 to 15 feet long, dark, glossy green. Young plants, 25 cts. each, \$2 for 10. Strong, heavy plants, \$2.50 each.

PHOENIX CANARIENSIS. Canary Island Date. * This is one of the tallest-growing species of this splendid genus, with an erect, massive single stem and dense crown of large, heavy, elegant, slightly curving leaves of pleasing green color often 15 feet or more in length. It is a good grower on rich, heavy soils but relatively slow on poor, high sandy soils.



The Plumy Coconut—Cocos Plumosa—Has Proved a Valuable Substitute for the Royal Palm in Peninsular Florida. If Interested, Write for Special Information for Planting in Your Section



A Suggestion for Florida City Planners from Miami. Why Not Plant Out Street Palms in Double Rows Instead of One Thin Line on Each Side of Street?



The Tropical Grounds Book

This is one of the most conspicuous features of the Florida landscape, making splendid lawn specimens, especially where hardiness is a valuable feature, as in middle and north Florida and the upper Gulf Coast where the more tropical sorts are too tender. Because of its large, dense crown and massive build it is one of the most valuable of Palms for street work where parking spaces are sufficiently wide to justify its use. Pot-grown plants, 35 cts. each, \$3 for 10; field-grown and balled, 1 to 2 ft., \$1.50 each; 2 to 3 ft., \$2.50; 3 to 4 ft., \$4; specimens, \$5 to \$8. Boxed specimens, \$5 and \$8.

P. SYLVESTRIS. Wild Date or Sugar Palm. * India. This is one of the most valuable species of the genus, especially for lawn decoration. While not so massive as the preceding, it is of much faster growth, even on poorer soils, and a developed specimen is of considerably more attractive appearance. Tall-growing, reaching 50 feet or more in height, it has a straight substantial trunk 12 to 14 inches in diameter, which remains clothed with the persistent petiole-bases ("boots") of the leaves. In this network grow many ferns which, with the advent of the summer rains, burst into a fascinatingly interesting drapery of green fronds well up into the crown of the palm. This last is large and compact and of perfect, well-rounded symmetry, consisting of smooth, grayish green leaves 10 to 15 feet long. The fruit, which hangs in immense clusters, is a conspicuous orange-yellow color, and sometimes ripens fairly well into edible dates. Pot-grown, 35 cts. each, \$3 for 10; field-grown, balled, 2 to 2½ ft., \$2.50; 3 to 3½ ft., \$3.50; 4 to 5 ft., \$5.

P. TENUIS. * D. A hardy species somewhat like **P. canariensis**, but with glaucous foliage. \$2.

SABAL BLACKBURNIANA. Giant Palmetto. * West Indies. This is undoubtedly one of the most valuable acquisitions to the Palm group in Florida because of its striking superiority over the native species. Both in trunk and leaves it is far more massive, the latter being simply huge. The trunk reaches a foot or more in diameter and a height of 35 feet or more and is of exceedingly rapid development for a Palmetto. We recommend it most highly. Young plants, 35 cts. and 50 cts.

S. HAVANENSIS. Cuban Palmetto. * This species differs from our native southern Palmetto chiefly in its leaves which are somewhat larger. Young plants, 35 cts. each, \$3 for 10; heavier, 50 cts. each, \$4.50 for 10.

S. PALMETTO. Cabbage Palmetto. * Southeastern U. S. A. A very hardy species with erect trunk 20 to 40 feet high, with large head of fan leaves. Very suitable for street planting on Gulf and Atlantic coasts generally where more tender Palms cannot be used. Plants showing character, 35 cts. each, \$3 for 10; larger, 50 cts. and \$1 each; field-grown, 2 to 3 ft., \$1.50 each; 4 to 5 ft., \$3.

WASHINGTONIA ROBUSTA. California Fan Palm. * California and Arizona. A fast-growing Fan Palm especially adapted to planting in Florida and the Gulf Coast region generally, and which should be represented in every Florida garden. More picturesque than the Palmettos, both in form and character of foliage, it makes a massive trunk crowned by a compact head of tough "fans" which are copiously furnished with white threads, which have given it another common name of "Thread Palm." Strong pot-plants, heavy, 75 cts. each, \$6.50 for 10; field-grown, balled, 2 to 3 ft., \$2.50 each, \$20 for 10; 3 to 4 ft., \$4 each, \$35 for 10; 4 to 5 ft., \$6 each.

Group II. Palms Adapted to Center Parking Strips in Streets

This class is particularly suited to locations where special considerations require plants of smaller crown or more dwarf habit. These should be used only at considerable intervals and for their picturesque and ornamental value only. For this we recommend the following:

COCOS ALPHONSEI. Blue Coconut. * This belongs to the so-called australis or hardy type of the genus and is invaluable in a variety of situations. All of this type are distinctly different from others of the genus and are characterized by being dwarf and bushy in habit, with gray-green foliage, compact and arching, and hardy over all the state. They are also

adapted to a very wide range of soils and conditions, thriving well on the poorest sandy soils if given half a chance to get established, as well as on fills made from fresh-pumped sand along the coast. For decorative work in parkways, they are unexcelled, and we recommend their use generally to all civic organizations interested in the beautifying of their towns. Strong plants, 75 cts. and \$1.50; extra heavy, field-grown, balled, \$3.

C. AUSTRALIS. Pindo Palm. * Paraguay. Nothing appeals to the tourist more than well-planted streets, and while the Cocos of this type are not adapted to street-tree use, they are invaluable on those wider boulevards which permit the introduction of the central parking strip. This species attains 30 feet in height, and is hardy, with foliage more slender than some of the group. Young plants, 50 cts.

C. DATIL. Argentine Coconut. * These more dwarf Cocos of the hardy type are especially well adapted to ornamental use, not only in parkways, but on the smaller lawns where large specimen Palms are often too big. On larger grounds they are often grouped close together, more like shrubs, and when interplanted with cycas, compoie, and other ground-cover plants of that class, they are most effective. The fruit of this species, like most of the type, is edible—that is, the outer fruity pulp surrounding the inner nut—and is characterized by a pasty consistency. Strong, field-grown plants, balled, \$3, \$5, and \$8.

C. ERIOSPATHA. Brazil Monkey Nut. * This is one of the larger-growing Palms of the australis type, and makes very beautiful specimens for decorative work. Being so hardy, all this group are especially valuable for their pinnate, or feather-like character of leaf—so many of the harder Palms are of the fan-leaved type. Pot-grown, 50 cts., field-grown, \$3.

HYOPHORBE AMARICAULIS. Bitter Stem Palm. *** This and the following species are very much alike, but, unfortunately, have been so frequently planted without discriminating taste that, as a rule, they do not appear to advantage, though in reality they are strikingly beautiful subjects. In some instances they have been used to interplant between Washingtonias and other tall-growing Fan Palms lining street or walk, and in this position they appear to great disadvantage. We urge that they be used wherever they are hardy, but grouped to better advantage. We can furnish strong plants at \$2.

H. VERSCHAFFELTII. Pignut Palm. *** D. Mauritius. This makes a stout Palm with trunk 25 to 30 feet high, and 6 to 8 inches in diameter, though of relatively slow development. The pinnate leaves are 4 to 6 feet long and tinted orange-yellow, making it a very distinct horticultural subject of beauty and interest. \$1, \$2, and \$3.50.

LATANIA borbonica. Chinese Fan Palm. See *Livistona chinensis*.



Handsome Specimen of Hyophorbe at Miami



LIVISTONA CHINENSIS (*Latania borbonica*). Chinese Fan Palm. * D. China. A hardy, rather slow-growing species with a stout trunk and many leaves, 4 to 6 feet in diameter. This is a highly ornamental subject, formerly more widely used as a house Palm than any other kind. Makes a fine decorative plant for either indoors or open air in the extreme South. Strong pot plants, 35 cts. each, \$3 for 10; extra heavy plants, \$1 and \$2 each. Magnificent tubbed specimens, highly decorative, 2½ to 3 ft., \$3; 4 to 5 ft., with equal spread, \$5.

PHOENIX ROEBELENII. Pigmy Date. *** D. A very dwarf species especially fine for house and conservatory decoration, and in extreme South Florida for use in the formal garden and patio. Nice young decorative plants at \$1.

RHAPIDOPHYLLUM HYSTRIX. Porcupine Palm. metto. * D. Central Florida. This is a comparatively slow-growing dwarf Fan Palm with very distinctive and characteristic long dark-brown spines from the bases of the petioles, whence its common name. Of beautiful effect, especially in the colder sections of the state where, because

the variety of suitable Palms is limited by cold, it should be more generally grown. \$1.50 and \$3.

THRINAX MICROCARPA. Silver Thatch Palm. *** D. Happy, indeed, and fortunate, are those who can grow one or more of these lovely Palms in their gardens. A dwarf Palm of perfect grace and symmetry with lovely fan-shaped leaves, silvery on the lower side, it is a dream of sheer beauty and can be introduced into the shrubbery borders of enclosed gardens or around mirror-pools with telling effect. Like all of this genus, it makes a most effective pot-subject for conservatory or living-room. Nice young plants with character, 50 cts.

T. SPECIES UNKNOWN. *** D. One of the newer dwarf Fan Palms with dark green, exceptionally deeply cleft leaves. This is especially valuable for table decoration, window-boxes, etc. Beautiful plants, \$1.50.

T. WENDLANDIANA. Thatch Palm. *** D. A Florida and West Indies Palm of rare beauty, with deeply cleft, fan-shaped leaves, and reaching a height of some 10 or 12 feet. This should be in every tropical garden in south peninsular Florida. 35 cts., \$1.50 and \$2.50.

Group III. Palms for General Lawn Planting, Parks, Etc.

Remember, when you locate each plant that it is to serve a purpose and that it should have some significance in your plan of the garden, bearing a distinct relation to the planting and your home. Don't make an exotic pet of it! We recommend all the foregoing, and also the following:

ACROCOMIA TOTAI. Tufted Palm. ** South America.

Were it not for the thorns of this Palm, we would classify it with the street trees, for it is a subject of exceptional beauty, with its erect, columnar trunk of 10 to 15 inches, reaching 40 to 60 feet in height and crowned by a magnificent tuft of graceful, featherly leaves. Both trunk and petioles of leaves are covered by long, stout spines which render it fit only for lawn planting away from possible contact by the general public. Planted in masses of shrubbery, it loses its objectionable feature, being out of the way, yet its splendid form and texture make it valuable indeed in landscape work. Pot plants, 50 cts. each, \$4.50 for 10; heavier, \$1 each, \$9 for 10. Balled plants from open ground, \$2.50 each.

ARCHONTOPHOENIX

ALEXANDRAE. Alexander Palm. *** D. Queensland. Tall, showy, elegant palm, with smooth, stout trunk of 70 to 80 feet, conspicuously ringed from leaf scars. Resembles the Seaforthia, but the pinnae are finer with under surfaces of silvery color. Young plants, 50 cts.

ARENAGA SACCHARIFERA. Sugar Palm. *** Java. Malaya.

Without question this is one of the very handsomest of tropical Palms and, while restricted to extreme South Florida in this country, it should there receive more attention than it does. Without any disposition to minimize the beauty or value of the Royal Palm, there are frequently situations where this subject could be used to just as good, if not better, advantage in securing landscape effects in extensive gardens, especially in the shrubbery border, where its enormous, shining, dark green pinnate leaves, arching gracefully overhead, make a never-to-be-forgotten picture. In Java it has an economic value, being used for the production of sugar from its sap. \$1.

CHAMAEDOREA SPECIES. Pacaya Salad

Palm. *** D. Guatemala. A handsome small palm reaching about 20 feet, with a straight trunk about 2 inches in diameter and a crown of graceful pinnate leaves about 6 feet long. The young flower shoots furnish the popular pacaya salad. Nice plants, \$1.

CHRYSALIDOCARPUS

LUTESCENS. (*Areca lutescens*) Golden Feather Palm. *** D. Madagascar. One of the most favored Palms for pot-culture, both because of its great beauty and easy growth.

It makes a bushy specimen, suckering freely even when very young, and develops golden yellow stems and elegant arched pinnate leaves. Because of its very bushy habit, it is rather better adapted to lawn planting or in massed groups. 50 cts., \$1, \$1.50 and \$2.50.



The Stately Queen of the Florida Garden—Phoenix Canariensis

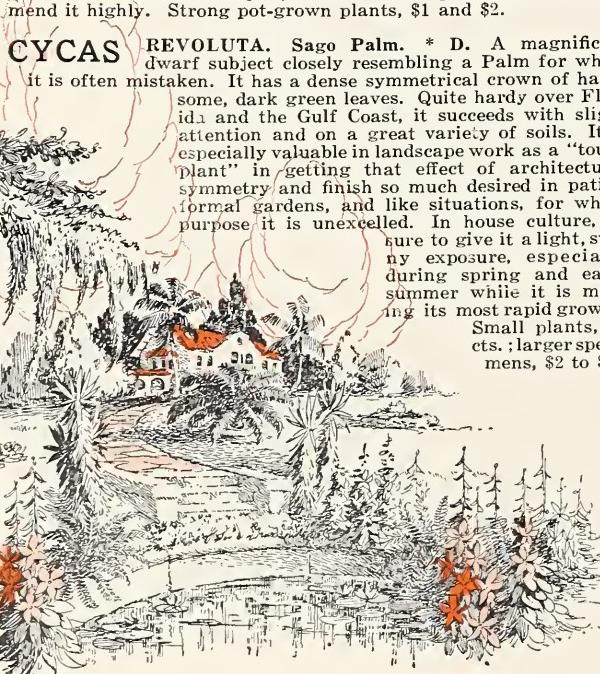
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The Graceful Phœnix Reclinata in the Florida Garden

COCOS NUCIFERA. Commercial Coconut. *** This magnificent tropical Palm is of special merit because of the picturesque habit of leaning growth of the trunk, its much swollen base and arched crown of heavy pinnate leaves. While often used in street work, it is most emphatically not adapted to this purpose, and its use should be discouraged. For waterfront walks, lawns, specimens, and massed groups in informal treatment it is without an equal, and for those purposes we recommend it highly. Strong pot-grown plants, \$1 and \$2.

CYCAS REVOLUTA. Sago Palm. * D. A magnificent dwarf subject closely resembling a Palm for which it is often mistaken. It has a dense symmetrical crown of handsome, dark green leaves. Quite hardy over Florida and the Gulf Coast, it succeeds with slight attention and on a great variety of soils. It is especially valuable in landscape work as a "touch plant" in getting that effect of architectural symmetry and finish so much desired in patios, formal gardens, and like situations, for which purpose it is unexcelled. In house culture, be sure to give it a light, sunny exposure, especially during spring and early summer while it is making its most rapid growth. Small plants, 50 cts.; larger specimens, \$2 to \$8.



DICTYOSPERMA RUBRA. Rouge Palm.

*** D. Tropical Asia. This Palm, of exquisite grace and elegance, has frequently been planted near large buildings, in great open places, etc., where it is dwarfed into relative insignificance. It should rather be used in low shrubbery borders or in the formal garden or patio with other smaller growing subjects where it will appear to better advantage. In its young state, the pinnate leaves are prominently marked with red, but as it matures it more closely resembles the Seaforthia than any other subject outside its genus. \$1 to \$5. Tubbed specimens, \$8.

D. SPECIES. *** This slender-trunked Palm with dark green leaves closely resembles the foregoing and is adapted to the same uses. Strong plants, 50 cts., \$1 and \$1.50.

ELAEIS GUINEENSIS. Oil Palm. *** D. West Africa. An ornamental Palm, with stout stems 30 to 40 feet high and leaves 15 feet long. The fruit kernels yield a valuable oil used in the manufacture of soap and candles. \$1.50.

LICUALA SPINOSA. Spine Palm. *** Java. A desirable greenhouse and exhibition Palm, having large, fan-shaped leaves. In nature the plant forms a tall, slender trunk with leaves 3 feet or more across. 50 cts.

PHOENIX OUSELEYANA (P. humilis). Dwarf Palm. **

D. North India. A dwarf Palm with short, tufted stems, and leaves somewhat glaucous green. \$1.

P. PUMILA. ** D. A quick-growing Palm, attaining 20 feet or more, with slender trunk 6 inches in diameter. Leaves drooping, 10 to 15 feet long, and of a glossy, dark green color. Pot plants, 50 cts. and \$1. Tubbed specimens, \$8. Field-grown plants, 2 to 3 ft., \$2.50; larger and heavier, \$5.

P. RECLINATA. Leaning Palm. ** D. Africa. Too much cannot be said in praise of this very lovely subject, valuable for either out-of-doors landscape work or for pot-culture. Normally this plant makes a great, bushy clump of many suckers from the main stem, but it can be trained to a single slender stem by removing the suckers each year for several years, when they will finally cease to sprout out. However, we do not recommend this, as the tall, slender trunk, of more or less uncertain steadiness of appearance, oftentimes really crooked, is a pitiable sight—far better to let it take its natural course and develop along the lines for which it is best suited and really most attractive. The leaves are dark green, arching, recurved and very numerous, making one of the most attractive species of the group. For landscape work it should have plenty of room if intended to develop as an individual specimen—too frequently it is crowded into a small patch of lawn where it is soon out of all proportion. Nice plants from 4-inch pots, 35 cts. each, \$3 for 10; larger, with character, 50 cts., \$1 and \$2. Field-grown, 2 to 3 ft., \$2.50, \$20 for 10; 3 to 4 ft., \$4, \$35 for 10. Tubbed specimens, \$3.50.

P. SENEGALENSIS. Black Date. ** D. A variety resembling *P. reclinata*, only of coarser texture. Strong plants, \$2 and \$3.

PTYCHOSPERMA MACARTHURI. Cluster Palm. *** D. A dwarf species with slender, ringed trunk and suckering freely at the base, making attractive, bushy specimens. Of special value in patio and formal garden work in extreme South. \$1 to \$3.

SEAFORTHIA ELEGANS. Seaforthia. *** D. Australia. An elegant, graceful subject especially adapted to decorative purposes, which in garden culture attains a height of 60 feet. In landscape work, it should receive the same attention as *Dictyosperma rubra*, which see. The smooth, slender trunk is crowned by numerous dark green pinnate leaves up to 10 feet long. This is one of the best Palms for the South generally indoors, where it stands chilly rooms admirably.

Plants showing character, each.....	\$0.50
2 feet, each	1.00
3 feet, each	2.50
4 feet, each	3.50
In tubs, each	5.00



Observe How Much More Attractive Is This Uniform Street Planting Than That of the Average Florida Street

Shade Trees

IT IS strange, and unfortunate, that in spite of all that has been said and written on the subject of reforestation and conservation of our natural resources, not to mention the esthetic side of the situation at all, that the destruction of fine shade trees goes on. Nowhere is this more true than in Florida where trees constitute a particularly valuable asset. Many settlers and purchasers of new properties seem to think that the proper course is to clear off all the native trees as a starter and then wait many long years for exotic specimens to take their places. Do not cut any trees unless you are absolutely certain that it is necessary; when you positively determine what is to come out—do not spare the ax!

Having, of course, worked out your plans—or had them executed for you by competent landscape designers—proceed to plant the trees first. On the home grounds, as well as in street and park, the ornamental shade trees add more to the comfort and beauty of the property than any other one subject. How many flat, bleak, and uninviting places could be made attractive by the introduction of a few choice, selected trees! Fortunately, most of our subtropical and tropical sorts are good growers, and there is no excuse for anyone not having a reasonable amount of shade at all times of the year. Serving also as a background, trees give the home a setting and the grounds as a whole proper perspective. Unsightly views and outbuildings should be screened, and trees for this and many other purposes are invaluable. For seashore planting, try *Ficus* in variety, *Pithecellobium*, *Ilex*, *Ligustrum*, *Casuarina*, *Coccolobis*, *Delonix*, *Melaleuca*, *Ahras*, *Eucalyptus*, *Juniperus*, and Live Oaks.

Group I. Trees for Street Planting

Nothing adds so much to the attractiveness of town or city as well-planted streets. The leading cities of Europe and many in this country spend millions of dollars annually in the planting and maintenance of their street trees. Almost invariably the character of a town and of its citizens is indelibly marked by the interest exhibited in street and park planting. Not only are trees of paramount importance in shaping the character of a city's future citizens and a source of comfort and pleasure to all, but in Florida particularly—a state in large measure dependent on the patronage of a large tourist population—it is a matter of hard business sense to make the town as appealing from every viewpoint as possible. And nowhere can a start be made to better advantage than in the streets and parking places. *Cities, plant some trees now!*

Special Notice. Our stock of trees falls into two classes, pot-grown (marked P), and from open ground. The former may be transplanted at any time, as their roots are but little disturbed and injured. The latter class should be set preferably during the winter months when dormant.

Species marked T are suitable only for extreme South Florida and the Tropics, or for growth in large conservatories. Those marked H are more hardy and can generally be planted throughout Florida and the Lower South. Those marked ST are an intermediate—that is, while not adapted to Florida planting generally, they

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can be used through southern Florida, resisting considerable frost, and even when frozen back somewhat, come right out again. This last class should receive some protection during the coldest weather the first two years. When in doubt, be sure to communicate with us. A few are used as decorative pot-plants when small, as *Ficus*, *Grevillea*, *Jacaranda*, and others. In addition to those regularly described we have noted certain tree-like shrubs that may be grown as street or shade trees and also some fruit trees adapted to the same classes of planting.

ACER RUBRUM. Scarlet or Swamp Maple. H. Native. Large tree with beautiful deciduous foliage which turns brilliant scarlet or orange in autumn. A valuable subject for street and park planting because of its excellent upright habit and the earliness of the scarlet flowers which appear in midwinter in Florida, followed by bright red seeds in early spring. 2 to 3 ft., 25 cts. each, \$2 for 10; 3 to 5 ft., 50 cts. each, \$4 for 10; 5 to 8 ft., 75 cts. each, \$6.50 for 10.

BAUHINIA PURPUREA. Mountain Ebony. T. A small-to-medium-sized tree that is especially valuable for narrow streets and private residential "places" where large trees are disproportionately out of place. There are occasions where the failure of the town-plan to provide adequate roadway makes it desirable to eliminate the park-space reservation, in which case Bauhinias are well adapted to planting on the property lines. They are very showy subjects, the large bilobed leaves falling in late winter, followed by a profusion of bloom that lasts for weeks. The flowers of this form are 3 inches across, of pleasing shades of lavender, mauve, purple, and white, resembling rare orchids, and quite fragrant. By judicious pruning this may be kept within the bounds of a large shrub, either in shrubbery borders or as specimen tub subjects. The fact that it stands somewhat more cold than most tropical subjects, makes it all the more interesting for Florida planting. P. 1-yr.-old, 25 cts. each, \$2 for 10; 2-yr.-old, 35 cts.

B. ALBA. White Mountain Ebony. T. Practically identical with the preceding except in its pure white bloom. A grand subject with its glorious mass of flowers from January to March. P. 1-yr.-old, 25 cts. each, \$2 for 10.

CINNAMOMUM CAMPHORA. Camphor Tree. H. China; Japan. A stout tree, hardy throughout Florida, of good size and with wide-spreading

branches, making a handsome, dense top. Thrives on even poor upland soils of the state and is valuable to the Gulf Coast region for the production of camphor gum. For this purpose, set 6 to 8 feet apart, in rows 12 to 15 feet apart. The twigs are sheared twice a year or more for distillation, usually commencing in the fourth year. This tree is also suitable for larger hedge work, forming a dense, impenetrable fence when properly grown and sheared. For street planting it is very satisfactory, for which use we recommend planting not closer than 40 feet apart. P. 25 cts. each, \$2 for 10; larger, 50 cts. each, \$4 for 10; heavy stock from open ground, \$1 to \$5.

FICUS ALTISSIMA. High Rubber. T. India. A very large, tall, vigorous tree with roundish, thick, leathery leaves of large size and beautifully veined. A splendid subject particularly well adapted to street work in extreme South Florida and the Tropics, because of its upright habit. Because of its root system, however, it should not be planted in narrow parking spaces. As a lawn tree, too, it is most useful and exceedingly beautiful. P. Strong stock, 12 to 18 inches, 50 cts.; 2 to 2½ ft., \$1.

F. BENGALENSIS. The true Banyan Tree of the Tropics. T. This species resembles *F. altissima*, growing 70 to 100 feet high. Strong roots are thrown out from the branches which make new trunks, extending the tree indefinitely. P. Strong plants, \$1.

F. BENJAMINII. Weeping Laurel. T. Australia. One of the handsomest of street trees for lower South Florida and the Tropics because of its symmetry of form and the lovely weeping effect of its smaller branches and small foliage. We esteem it most highly and consider that for use on the East Coast, from Palm Beach south, and on the West Coast, from Fort Myers south, it is a street tree of particular merit that has been neglected by planters. It is highly prized in Australia where it is much used for street and park work as well as on private lawns. P. Strong stock, \$1 each, \$9 for 10.

F. INFECTORIA. T. Tropical Asia. This is another of the small-leaved "rubbers" that, like *Ficus benjamina*, is attractive both in form and leaf and of interesting weeping habit of growth. For lawn planting we recommend cutting it back to the ground after it is well established in order to make it branch strongly from the base and make a vase-like form of growth. It is a splendid, vigorous sort, reaching 60 feet in height, that should be widely grown wherever hardy. P. Fine plants, 50 cts. and \$1.

F. MACROPHYLLA. Moreton Bay Fig Tree. T. Australia. One of the finest of Australian street trees, claimed to be hardier than most of the genus. Leaves are large, resembling *F. elastica*, only more tapering. The general growth is upright. P. Strong plants, \$1.

F. NITIDA. Indian "Laurel." T. This is, without question, one of the very handsomest of tropical shade trees, being widely famed in the West Indies where it withstands the severest winds—anything short of hurricanes! In form it is tall, roundish pyramidal, upright, and with very dark green foliage of great beauty. The leaves of this variety are small, thick, and glossy, and are borne in dense profusion. P. Strong plants, \$1.

F. RUBGINOSA. Rusty Fig. T. Australia. A compact, round-headed tree with leathery, roundish leaves which are russet-colored on under side. P. Strong plants, 50 cts. and \$1.

F. UTILIS. T. A very fine, large-leaved variety, making a handsome pot subject as well as a splendid tree for planting out in extreme South Florida. P. Strong plants, \$1 to \$3.

GREVILLEA ROBUSTA. Australian Silk Oak. ST. A tall, rapidly-growing tree which normally reaches 120 feet in height, but which, by cutting out the top when it has reached a good size, makes a spreading, fine top. The leaves are pinnate, of feathery, fern-like appearance, making very graceful and attractive young pot plants for decorative purposes. The tree is ever-



The Dark, Shady Mass of the Camphor Tree



The Live Oak — Noblest of Trees

green, very drought-resistant, and altogether well adapted to growing as street or lawn tree in South Florida and California, being as hardy as the orange tree. In the spring the tree is a mass of orange-yellow flowers in large trusses. For street planting we recommend that the trees be placed about 30 feet apart. P. Strong plants from 3-in. pots, 15 to 20 in. high, at 25 cts. each, \$2 for 10; from 4-in. pots, 2 to 2½ ft. high, 35 cts. each, \$3 for 10; from open ground, very heavy, \$2 and \$3 each.

LIGUSTRUM JAPONICUM. Japanese Privet. H. A splendid small- to medium-sized tree of upright growth and with thick, dark green foliage strongly suggesting the northern lilac. Of dense, symmetrical growth, we suggest it for the same purposes in street work as the Bauhinias. The white, fragrant flowers are of small size, but borne in profusion in loose panicles. Fine grafted stock, 5 to 7 ft., \$2 each, \$18 for 10; 7 to 9 ft., \$3.50 each.

MAGNOLIA GRANDIFLORA. Magnolia. H. Native. A tall, evergreen tree, up to 80 feet high, of pyramidal habit—the most magnificent of our broad-leaved southern evergreens. The immense leaves are rich, glossy green above and brownish pubescent beneath. The lemon-scented flowers are waxen white and 6 inches across. Fine stock from open ground only, 3 ft., \$1 each, \$9 for 10; 4 ft., \$1.50; 5 to 7 ft., \$2.50 each; 7 to 9 ft., \$3.50 each.

PITHECOLOBIUM DULCE. T. Mexico. A stately tree over 40 feet high, with very attractive, rather light green foliage. The excellent form and habit of the tree make it one of the most desirable ornamental trees for extreme South Florida planting. Bears twisted pods containing sweet, orange-colored pulp, edible and wholesome. P. Nice plants, 25 cts. each, \$2 for 10. Heavy field-grown, \$1.50 each.

PITTOSPORUM RHOMBIFOLIUM. Queensland Pittosporum. T. Pyramidal tree 80 feet high, with a profusion of white flowers in terminal corymbs followed by bright orange-yellow berries in autumn and winter. A fine tree for lawns and avenues. P. Fine young stock, \$1.00, \$9.00 for 10.

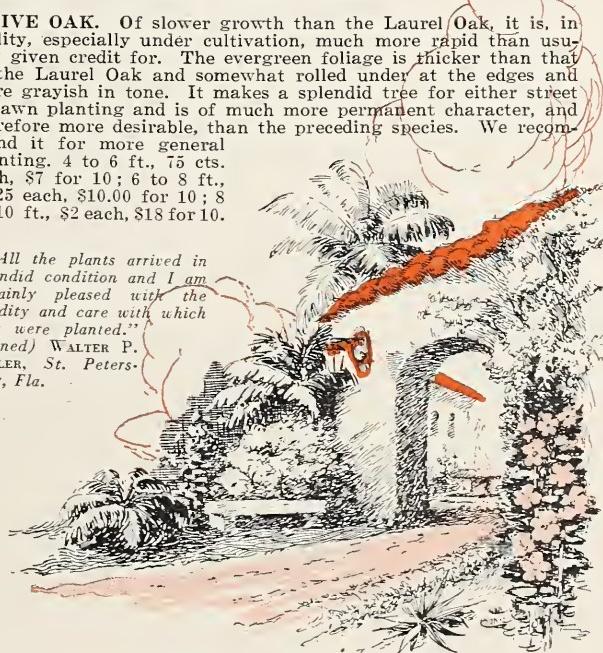
QUERCUS. Oak. H. Of the native evergreen Oaks there are two forms which are particularly valuable for street and lawn planting and which we highly recommend. While under certain conditions the moving of these sub-

jects from the woods is desirable, for general planting it will be found that our trained and root-pruned nursery stock will move to better advantage and make better trees.

LAUREL OAK. (Sometimes confused with Water Oak.) One of our very handsomest shade trees for general planting in all sections of the state and of adaptability to almost all conditions. It makes a spreading, round-headed, evergreen tree attaining in cultivation a height of 80 feet or more. Foliage rather small and dark green. Of rapid growth and vigorous, it is especially valuable for street planting as well as on lawns, and cannot be recommended too highly. Fine stock, 4 to 6 ft., 75 cts. each, \$7 for 10; 6 to 8 ft., \$1.25 each; 8 to 10 ft., \$2 each.

LIVE OAK. Of slower growth than the Laurel Oak, it is, in reality, especially under cultivation, much more rapid than usually given credit for. The evergreen foliage is thicker than that of the Laurel Oak and somewhat rolled under at the edges and more grayish in tone. It makes a splendid tree for either street or lawn planting and is of much more permanent character, and therefore more desirable, than the preceding species. We recommend it for more general planting. 4 to 6 ft., 75 cts. each, \$7 for 10; 6 to 8 ft., \$1.25 each, \$10.00 for 10; 8 to 10 ft., \$2 each, \$18 for 10.

"All the plants arrived in splendid condition and I am certainly pleased with the rapidity and care with which they were planted."
(Signed) WALTER P. FULLER, St. Petersburg, Fla.





The Tropical Grounds Book



A Study in Lawn Planting

Group II. Trees for Lawn and Park Planting

The next time you see a fine, sturdy, yellow pine tree, take a few minutes to carefully survey it in detail from where the massive roots strike into the ground in several directions at the crown, up the length of its magnificent netted trunk with its envelope of thick reddish brown bark-scales, to the simple, rugged character of the branching system and masses of clustered needles; do the same with a live oak and all the other trees you meet; you will be surprised at the interest you will develop and the facts you will learn about trees. Then study the shadows they cast on a good, smooth lawn, especially when the sun is on the rise or decline — lawn shadows are one of the important considerations in good landscape work. If you haven't thought of that before — do it now! We recommend to your attention all of the varieties listed in Group I and also the following:

ACHRAS SAPOTA. Sapodilla. T. Tropical America. This most interesting medium-sized evergreen tree, common in this state on the lower coasts and keys, and highly prized for its delicious fruit, makes a lovely lawn subject in extreme South Florida and the Tropics. Symmetrical in habit, with branches arranged in tiers, and broad, glossy green leaves, it reaches a height of 25 to 30 feet. It is especially valuable for seashore planting, even standing occasional inundations of salt water. See Fruit Department. P. 50 cts., \$4.50 for 10.

ALBIZZIA LEBBEK. Woman's Tongue Tree. T. Tropical Asia. A tall, handsome pinnate-leaved shade tree which does well here. It is of quick growth, with greenish yellow flowers. Resembles the royal poinciana somewhat but leaves not so finely cut. P. Nice plants, 50 cts. each, \$4 for 10; extra heavy, \$1.

ARAUCARIA BIDWILLII. Bunya Bunya Pine. ST. Australia. This is the most picturesque and tropical appearing conifer for Florida planting. It is of symmetrical growth and rounding-pyramidal form, with strong, pendulous branches from the ground up. It may be successfully grown outdoors in South Florida, withstanding severe frosts. It is frequently planted in very limited areas or close to porches and buildings, but this is a serious error, as the tree reaches enormous proportions and should only be planted in larger areas where it can be viewed from a considerable distance and appear in good perspective. P. Nice young plants, \$1 and \$2.

BARYXYLUM DUBIUM. Gold Tree of Brazil. T. A large tree, 50 to 60 feet high, spreading in habit, with lovely compound foliage resembling Jacaranda. The profuse flowers are bright yellow with golden-yellow anthers. P. \$1.

CALLITRIS VERRUCOSA. Cypress Pine. ST. Australia. A splendid tree particularly valuable on the poor sand ridges of Florida where many subjects will not thrive, growing thriflily wherever the Spruce Pine is native. Its fine, green foliage very much resembles cedar, and its low, dense growth, tapering up to true cone shape, makes it especially useful in plantings amongst poor sapling pines where one wishes to get a lower ground-effect of coniferous foliage. P. Nice strong stock, pot-grown, \$1.50. Fine plants in tubs, \$5.

C. VERRUCOSA, BLUE. This is a splendid form of the preceding, the difference being in the color of foliage which is a stronger blue-green. P. Strong pot plants, 50 cts. and \$1.50. Fine plants in tubs, \$5.

CARYOPHYLLUS JAMBOS. Rose Apple. T. India and Malaya. A particularly handsome medium-sized tree of upright growth, also useful in border planting as a large shrub with long, willowy green leaves. See Fruit Department. P. 50 cts. each, \$4.50 for 10.

CASSIA NODOSA. Joint-wood. T. India. A medium-sized tropical tree, especially beautiful when bearing its profusion of bright pink, rose-scented flowers in May and June. P. Strong young plants, \$1 each, \$9 for 10.

C. SIAMEA. T. Philippines. A large, fast-growing, ornamental tree with pinnate leaves and shiny flowers in terminal clusters. P. Strong plants, \$1 each, \$9 for 10.

CASUARINA CUNNINGHAMIANA. Hardy Australian Pine. ST. Because this variety is so much hardier and more satisfactory than the tender *C. equisetifolia*, we are growing it in preference to the latter. Probably hardy over all of Peninsular Florida. While we do not recommend this



tree for general street and drive planting in Florida because of its cold, northern "atmosphere," there are circumstances which excuse its use, chief of which is proximity to the seashore. Here it will stand the buffeting of wind and salt spray to splendid advantage, serving a useful purpose in itself and also making a most valuable screen for other more tender and susceptible subjects. It will grow and thrive on fresh sand fills along the coast, starting immediate thrifty growth when planted, where most plants would succumb. P. Nice small plants, 35 cts. each, \$3 for 10, \$25 per 100. Larger, 75 cts. each.

CITRUS in variety. ST. All of this group of trees—Oranges, Grapefruit, etc.—are most valuable subjects for the decoration of the lawn wherever hardy, forming most attractive subjects of beautifully symmetrical roundish form, glossy green foliage, and deep golden yellow to orange-colored fruits. See Fruit Department for varieties and prices.

COCCOLOBIS UVIFERA. Sea-grape or Shore-grape. T. South Florida coasts and West Indies. If your home is along the South Florida coasts, be sure to plant several of these handsome, medium-sized trees. Its foliage is large, round, veined and petioled strong red. Altogether it is one of the most beautiful trees of the Tropics and its capacity to resist salt wind and spray makes it a subject of very particular value. We recommend it highly. See Fruit Department. P. 50 cts., \$4.50 for 10.

CUPRESSUS LUSITANICA GLAUCA. Cedar of Goa. H. One of the few desirable and, from the landscape standpoint, valuable coniferous trees for general Florida planting, attaining 50 feet in height. It is of spreading habit, with pendulous branches clothed with glaucous green foliage. P. Strong plants, \$1; larger, \$1.50.

DELONIX REGIA. Royal Poinciana. T. Madagascar. An extremely rapid-growing tree, one of the fastest we know, with wide-spreading, umbrella-shaped top. Foliage fine, pinnate, large, dense in summer but becoming thin during the colder months. Flowers 3 inches across and bright scarlet, make the tree one of the most striking and gorgeous trees in the Tropics. Blossoms spring and early summer. P. 25 cts. each, \$2 for 10; larger, 35 cts. and 50 cts.

DILLENIA INDICA. Indian Magnolia. T. Tropical Asia. Shapely tree with stout trunk and large, rough leaves, giving dense shade. Flowers large and showy, fully 9 inches across, with numerous stamens forming a large yellow cluster in center. A very showy subject, related to Magnolia. The large acid fruits are used in jelly-making. P. \$1.

ERIOBOTRYA JAPONICA. Loquat. H. A splendid evergreen for general Florida planting, with large, handsome, rough leaves of striking character for the lawn of the home grounds. Grows and fruits particularly well on uncultivated ground. See Fruit Department for varieties and prices.

EUCALYPTUS Gum Tree. ST. Australia. A valuable genus of forest trees now in the public eye, being exploited for timber-growing in California. Some species do fairly well in South Florida, especially on rolling or hilly, well-drained land as free from frost as may be found. Some specimens are growing well on flatwoods soil. For forests set 6 to 12 feet each way. We offer some of the very best species adapted to Florida conditions, all plants of which are pot-grown, and may be set out when weather conditions suit, especially in summer. As they are naturally very slender, pruning may be done to bring them into any desired form, preferably in early spring.

Frankly, we do not favor the use of Eucalyptus trees for street planting, for several very well-founded reasons. For general shade trees on the small lawn we do not recommend them either, though on large properties, especially where they can be planted in groups, they can be worked into the landscape effect to very excellent advantage because of their towering, picturesque habit and growth. Their root system is extensive—and shallow—and must be guarded against when planted close to groves for wind-breaks, for which they are best suited. Like the Australian pine, they stand considerable exposure along the open shores and are invaluable on fresh "filled land" where so many subjects will not thrive. They seem to take hold right off and grow vigorously without check through the cold wind and stormy weather of the winter months. They should not be planted in latitudes where they would not be hardy on account of too low temperatures.

E. ROBUSTA. Swamp Mahogany. This seems of unusual merit here, especially as a shade tree, as its spreading habit and broader leaves cast more shade than most species. P. 15 cts. each, \$1.25 for 10; heavier, 25 cts. each, \$2 for 10; extra heavy, 50 cts.

E. ROSTRATA. Red Gum. This is found in more places than any other Eucalypt in Florida, and the largest Eucalypt in the state is growing near Oneco. It is unusually hardy. P. 15 cts. each, \$1.25 for 10; larger, 25 cts. each, \$2 for 10; heavier, 50 cts. each.

E. RUDIS. Flooded Gum. This may be planted on low, wet lands, subject to inundation, and promises to be fairly hardy. P. 15 cents each, \$1.25 for 10; heavier, 25 cts. each, \$2 for 10; extra heavy, 50 cts. each.

E. TERETICORNIS. Gray Gum. One tree of this species has made the most rapid diameter growth of any Eucalypt measured in Florida by the experts of the Forestry Bureau, and is a very valuable sort to plant in South Florida. P. 15 cts. each, \$1.25 for 10; larger, 25 cts. each, \$2 for 10; extra heavy, 50 cts.

FICUS AUREA. Wild Rubber. T. Native. While we urge against the use of this subject for street planting for several good reasons, and do not recommend it for general lawn planting, even where hardy, it serves a particularly useful purpose for planting along the seashore and on fresh "filled land" where many subjects will not thrive. It makes a handsome shade tree wherever hardy, erect and with large, dense top consisting of smooth, very dark green leaves. P. 50 cts. each, \$4 for 10; extra strong, \$1.

F. ELASTICA. India Rubber Tree. T. This is the common Rubber Tree grown so much in the North as a decorative house subject. The tree grows to immense proportions, reaching a height of 100 feet in the Tropics, and is of wide-spreading habit. Because of the huge size it attains, it should only be planted on properties of large size that can adequately contain it and where it can be viewed in proper perspective. Nothing could be more absurd than the sight of a tiny town lot dominated by so enormous a subject as this—and usually planted right close to the house! The leaves grow to 12 inches in length, are very dark, glossy green, leathery in texture. As a decorative subject it is of very easy culture and handsome appearance. P. 12 to 18 inches, 50 cts., \$4.50 for 10; 2 to 2½ ft., \$1; 3 ft. and over, extra fine, \$1.50; tubbed specimens, branched, \$3.

F. ELASTICA VARIEGATA. T. This is a very fine form of the Rubber Plant with creamy white margins, and of generally brighter green color. P. Strong plants, \$1 and \$2.

Other Rare Species of Ficus named and priced on application.

GLIRICIDIA MACULATA. Mother Tree. T. Gloriously beautiful, pinkish lavender flowers in spikes resembling the black locust, come in spring in profusion after pinnate leaves drop. A second, but lighter bloom period comes in a few weeks with the new growth. A small or medium-sized tree. P. 50 cts., \$4.00 for 10.

ILEX OPACA. Southern Holly. H. Native. If you can rejoice at the sight of a shapely tree with dark green foliage, loaded during the winter months with a wealth of scarlet berries, then you should have one or several of these trees on your grounds, depending on the size of your property. This is the well-known prickly-leaved Holly used so much for Christmas decorations, making a large-sized tree with short, spreading branches, forming a narrow, pyramidal head. As the trees are dioecious—male or female—plant several specimens, if possible, to assure the securing of a bearing one. Strong plants, 50 cts., \$1 and \$2.

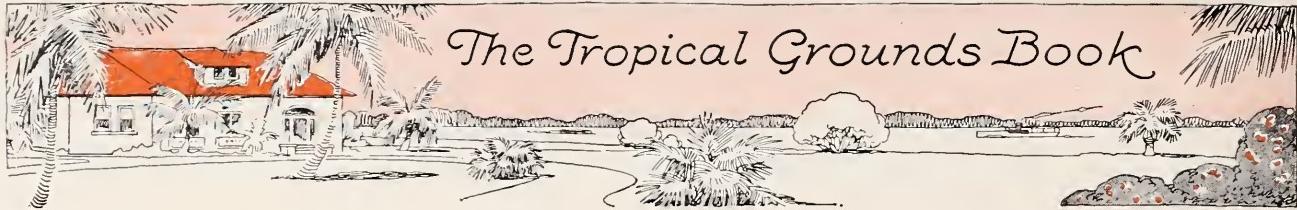
JACARANDA MIMOSAEFOLIA. Fern Tree. ST. Brazil. Without a doubt one of the loveliest trees for South Florida planting. The foliage is very finely cut, almost fern-like, symmetrical and elegant. The large panicles, each bearing 40 to 90 flowers of lavender-blue, come in great numbers from April to June and for weeks the tree is a cloud of blue. P. Fine, strong plants, 50 cts. each, \$4.50 for 10; extra heavy, \$1 each, \$9 for 10. Tubbed specimens, \$2.50 each.

JUNIPERUS BARBADENSIS. Red Cedar. H. Don't forget this subject when selecting your list for planting along the seashore. It is very resistant in such situations, and its dense, spreading habit makes it particularly attractive and desirable. Against a strong background of native growths it is particularly charming. Economically it has been valued for years for its beautiful red wood, much used in pencil manufacture. Because of its lasting quality, the unpeeled Cedar is to be most strongly recommended for pergola and other rustic construction. Strong pot plants, \$1.00; tubbed specimens, \$2.50.

LITCHII CHINENSIS. Litchee Fruit or Nut. (Pronounced Light-chee.) T. China. A symmetrical, spreading tree of good, clean growth and medium size, particularly valuable for lawn planting and interesting for its fruit. Most highly esteemed by oriental travelers as well as natives there. Considerably harder than the mango and can be planted with comparative safety as far north as Tampa, especially in more protected situations. Layers from fruiting specimens, pot-grown, \$3.50; seedlings, \$2.

MACADAMIA TERNIFOLIA. Queensland Nut. T. Australia. Handsome evergreen tree, about 50 feet, valuable both for nuts and timber. While of relatively slow growth, the nuts are produced in about seven years from seed and are of a rich, agreeable flavor. Tree prefers loamy, well-drained soil, and will grow under quite dry conditions. P. 50 cts., \$4.50 for 10.

The Tropical Grounds Book



MANGIFERA INDICA. Mango. T. Tropics. Wherever hardy in lower South Florida, this subject cannot be recommended too highly for general lawn and decorative planting. A handsome, large, and more or less spreading tree in Florida. Its perfect symmetry and splendid, long, tapering foliage, which when young varies in color from yellowish-brown tints to deepest claret-red, make it most desirable for including in the family of trees on the lawn. Refer to Fruit Department for varieties and prices.

MELALEUCA LEUCADENDRON. Cajaput or Punk Tree. ST. Australia. Far from being a "punk" tree—in spite of its cognomen—it is to be very highly recommended for general South Florida planting, and most particularly so on the seashore, where it ranks with the eucalyptus in powers of resistance and ease with which it takes hold and "grows off" in the poorest sand "fills." In habit, it makes a towering tree, relatively slender and can be used with very telling effect for "punctuating the landscape," giving much the same character to the sky-line that the Lombardy poplar does in the North. The branches are pendulous and, of course, very short, the leaves narrowly oblong and tapering, and the creamy white flowers come in a profusion of roundish spikes. The bark—because of which it received its second name—is deeply spongy and of pale-buff color. It thrives also on very low, wet soil around lakes and similar situations. We consider it one of our choicest acquisitions. P. Strong plants, 50 cts. each, \$4.50 for 10.

MORUS ALBA. Mulberry. H. Most useful tree for shade, particularly in the poultry-yard, its one great objection being that it is deciduous during the colder portion of the winter months. It is an exceptionally rapid grower, of spreading habit and with large, coarse foliage, and for those who live here the year 'round and do not object to an occasional deciduous tree if their grounds are of some size, it is to be highly recommended. See Fruit Department.

OROXylum INDICUM. T. South Asia. A striking tree with glossy, compound foliage and terminal panicles of large white to purple flowers. Wants a rich soil for best growth. P. Strong plants, \$1.

PARKINSONIA ACULEATA. Jerusalem Thorn. H. up to 20 feet high; branches somewhat pendulous, bearing long, narrow, pinnate leaves; deciduous. In late spring it is a mass of

bright yellow flowers. It is relatively hardy and thrives in the driest places. A good tree to plant in localities so dry that other trees will not thrive there. P. 50 cts.

PERSEA AMERICANA. Avocado (erroneously "Alligator" or Avocado Pear"). T., ST. On the small lot, where space is limited there is a very special reason for making fruit trees serve the double purpose of ornament and economy and we recommend the Avocado very highly for this purpose. It makes a good spreading lawn tree with large, evergreen foliage, bearing a salad-fruit of incomparable value. Because of the new Guatemalan and Mexican varieties, the area of safe planting of the Avocado has been extended to include the entire peninsula of the state, and we refer you to the Fruit Department for extended descriptions of varieties and prices.

RHEEDIA ARISTATA. T. A choice, rare tree of very upright growth, attaining a height of 50 feet, with prickly leaves suggesting holly. While it makes a very handsome specimen in the Tropics, and may do well in extreme South Florida, the fruit is of questionable value. P. \$1.

SALIX HUMBOLDTIANA. ST. South American Willow. A slender, compact, towering subject, especially valuable for punctuating the landscape sky-line. Leaves long and branches closely hugging the erect trunk. Pot-grown plants, 50 cts., \$4.50 for 10; from open ground, heavy plants, \$2.50 and \$5.

SAPINDUS MUKROSSI. Soapberry Tree. H. An attractive tree with bright green, compound leaves and with seeds coated with a fatty substance used as a soap. Said to be the most valuable species for Florida planting. Deciduous. P. Strong plants, 50 cts. each.

SPATHODEA CAMPANULATA. African Fountain Tree. T. Tropical Africa. A rapidly growing tree with large, pinnate leaves and large, pitcher-shaped flowers, dull red in color with yellow border, blooming when quite small. It is very tender and suited to planting only in very protected places in extreme South Florida. P. 25 cts. each, \$2 for 10; heavier, 50 cts. and \$1.00.

STILLINGIA SEBIFERA. Tallow Tree. H. This makes a splendid shade tree for Florida lawn planting, especially toward the northern section where deciduous subjects are not considered so objectionable. In growth it is somewhat spreading and the top is a dense mass of poplar-like leaves which turn brilliant colors in the autumn before dropping. P. 50c.



The Feathery Softness of *Bambusa Argentea Striata*—See Page 20



Royal Palm Nurseries, Oneco, Fla.

Bamboos and Grasses

"Strong, yet graceful; single, yet how prolific in its multiplicity of canes; silent, yet speaking with countless tongues of the beauty and appeal of our Southern Paradise!"

THE name "Bamboo Tree" is a misnomer in every sense of the word, though in lawn decorative practice the Bamboo is frequently used in place of trees. In a limited way it does serve the same purposes—to add interest and variety to the sky-line, to cast long shadows of varied form in the early and late hours of the day, and to add a feeling of enclosing bulk to the proportion of the planting as a whole—but its more especial usefulness in the South rests in the distinctively tropical effect it creates in the landscape.

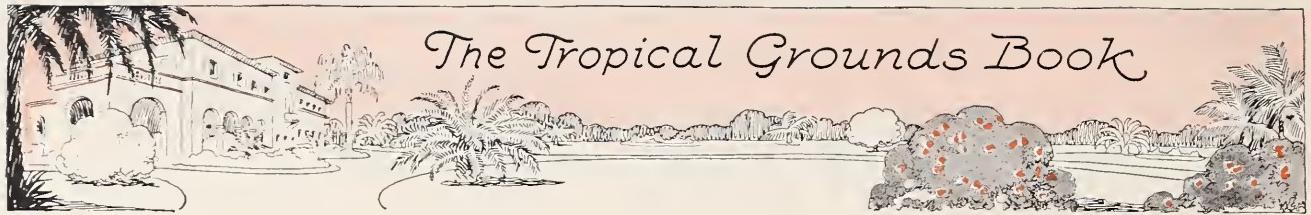
It is entirely unique in its habit of growth, being a bunch of grass of monumental proportion, and placed in proper relation to the surrounding plants and landscape, it is coequal with the palm in its power of suggesting the fascination of the Tropics. There are several of the more hardy sorts which are effective as far north as Ohio and Pennsylvania, where they stand the winters safely and where liberal plantings create a luxuriant and semitropical effect. For the florist, the Bamboos proper are especially useful in many ways—decoration, design work, and the like.

But it is in the South that the Bamboo is particularly useful because there it reaches its perfection, and yet, with so many desirable features to commend it to Florida planters and horticulturists, it has, unfortunately, been much neglected. While effective as an individual if properly handled, yet it is pre-eminently fitted to massed groupings when used in conjunction with ornamental grasses as border plantings with agaves, yuccas, and the like for contrast at points to bring out the fountain-like character of growth. But when used as single ornamental specimens, Bamboos, like large coniferous trees, are seen to best advantage when at some distance where they have sufficient space to appear in proper perspective to the surrounding plantings.

While they do well on quite a wide range of soils, they do not like very thirsty land and, as gross feeders, respond readily to liberal applications of organic manures and fertilizers. When used for hedge and wind-



A Study in Bamboo Foliage Composition



break purposes, they can be planted very close together and in a few years are effective and truly invaluable. Objection is sometimes raised on the score of the foraging powers of the root system, which endangers the growth of nearby trees and plants, but this can be offset by shallow ditching.

Special Notice. Grasses and Bamboos may be set out any time of the year. On a large scale of planting, summer is to be preferred or late spring in this climate. For northern and western locations, we should recommend the spring. See note under Lawns for special remarks on lawns.

Explanation of Symbols. * Those most hardy, standing the climate as far north as Ohio or farther. ** Hardy all along the Gulf Coast, standing a temperature as low as 12 or 15 degrees Fahr. without serious, if any, injury. *** Tropical species, notwithstanding but light frosts unharmed. Roots will throw up growth, however, if tops are frozen.

Group I. Giant-caned Species of Bamboos

BAMBUSA THOUARSII. ** China. We consider this and *Dendrocalamus latifolius* the finest Giant-caned Bamboos for Peninsular Florida. While not quite so large in cane as *B. vulgaris*, they are of much better color and much more dense and compact, making towering specimens of incomparable beauty. This was introduced by us to Florida not many years ago and is growing splendidly on our grounds now. It has withstood 20 degrees Fahr. with no injury whatever. Erect and vigorous in growth, it promises to reach 50 to 60 feet in height at least. Strong, young plants, \$2.50 each; small clumps, \$5; larger clumps, \$10.

B. VULGARIS. Golden Giant Bamboo. *** Now quite commonly grown over South Florida. One of the handsomest of the genus, reaching a height of 60 to 70 feet, light yellow in color, and making great clumps of arching, feathery canes. Pot plants, 50 cts., \$4.50 for 10; single, large-rooted canes, \$1.

DENDROCALAMUS LATIFOLIUS. Tree Bamboo. ** Like all of the tall-growing, giant-caned type, this one is especially valuable for creating sky-line effects of tropical character and for decorating the shores

of lakes, ponds, streams, and the like. The particular merits of the Bamboo itself, however, are the color of its foliage, which is a very dark green, the size of the individual leaves, as its specific name indicates, and its hardiness, notwithstanding sharp freezes unharmed. Altogether very rare and valuable plant, and useful in the Florida landscape. Small clumps, \$2.50.

D. STRICTUS. *** A lovely Giant-caned Bamboo of great charm for its airy, feathery effect, accentuated by its very yellow-green foliage, and particularly useful from the landscape standpoint for lightening up an otherwise dark and somber background. It will stand more frost than most of the tropical Bamboos and the canes, which are solid until quite large, attain a height of 40 to 50 feet. Clumps, \$2.50 to \$10.

PHYLLOSTACHYS QUILIOI. Timber Bamboo. * China. While we consider this

of relatively little value for landscape purposes because of the irregular, scattered character of its growth, it is particularly interesting and valuable for its gigantic stems which attain a diameter of 4 inches and a height of upward of 70 feet. These arise from underground rootstalks usually about 2 feet apart and making a loose, spreading plantation. \$1.

Group II. Species of Bamboos Making Thick Clumps of Small to Medium-sized Canes

BAMBUSA ALPHONSE KARRI. ** Japan. This species makes huge clumps of strong canes which are striped alternately green and yellow in distinctive marking. In

growth it is vigorous and suggests *B. argentea striata*. Single canes 25 cts., \$2 for 10; \$18 per 100. Clumps, 50 cts., \$1, \$2.50 and \$5.

B. ARGENTEA. Silver Bamboo. ** Japan. A particularly attractive species, making dense clumps of relatively small canes which are very graceful and clothed with small foliage. It reaches a height rarely exceeding 30 feet or so and is valuable for hedge or wind-break purposes. Single canes, rooted, 15 cts. each, \$1 for 10; \$8 per 100; clumps, 35 cts., \$1, \$2.50, \$5, \$10, \$15, and \$25.

B. ARGENTEA STRIATA. Striped Silver Bamboo. ** Like the preceding except that the foliage is striped white, especially during period of most rapid growth, and the canes are considerably larger and more vigorous than the type. Extra valuable subject for windbreaks and for planting along margins of our inland lakes. Single canes, rooted, 25 cts. each, \$2 for 10, \$15 per 100; clumps, 35 cts., \$1, \$2.50, \$5, \$10, \$15, and \$25.

B. DISTICHA. Dwarf Bamboo. ** A rather dwarf Bamboo reaching a height of 10 feet and forming dense clumps particularly striking when combined with ornamental grasses. Foliage extremely small and narrow. Individual canes with their foliage are effective in decorations and may be used by the florist. This form is particularly valuable for making hedges or screens from 6 to 10 feet high, for which purpose it is unexcelled under conditions permitting the use of bamboo at all. Single canes, rooted, 25 cts. each, \$2 for 10; clumps, 50 cts., \$1 and \$2.50.



Dwarf Bamboo Used to Screen a Service Feature



Royal Palm Nurseries. Oneco, Fla.

Group III. Species of Small-caned Bamboos Spreading Irregularly and Making Thickets and Screens

ARUNDINARIA METAKE. Arrow Bamboo. * Japan. A very broad-leaved, hardy species, rarely exceeding 10 feet in height, very suitable for tubs as a house-plant. It forms naturally large masses but may be confined to clumps effectively. Because of its loose, spreading habit by underground shoots, its usefulness in landscape work is extremely limited, for which purpose we seldom recommend it, and on small properties it may actually become a nuisance. Single canes, rooted, 15 cts. each, \$1.00 for 10; clumps, 25 and 50 cts.

PHYLLOSTACHYS AUREA. Golden-Stemmed Bamboo. * Japan. Very hardy species with underground running stems which throw up canes irregularly. Unless confined it makes a straggling appearance. Fine for tubs or for odd places on large grounds, making a fine "cover" for poultry; prefers a good, moist soil. Hardy to the Ohio River at least. Attains a height of 8 to 12 feet. Single canes, rooted, 25 cts. each, \$2 for 10.

Group IV. Ornamental Grasses

Nothing could be more attractive around the margins of our Florida lakes—or elsewhere for that matter—than groups of the following Grasses, especially when supported by clumps of bamboos. Their delicate foliage harmonizes and blends perfectly with the soft ripples of the water, and most charming effects have thus been created.

ARUNDO DONAX VARIEGATA. Gardener's Garter. * A beautiful bamboo reed attaining a height of 12 feet, beautifully variegated with white, especially during its early growth. Makes large clumps and is useful for bedding. Has immense flower-plumes. Especially hardy and may be planted all over the Middle States as well as the South. When the canes pass their period of greatest beauty they may be cut to the ground, in this way forcing the growth of new variegated canes. Heavy roots, 35 cts. each, \$3 for 10.

CORTADERIA SELLOANA. Silver Pampas Grass. * Too much cannot be said in praise of this splendid grass which in years makes huge clumps of fine foliage. In the fall it produces beautiful plumes of silvery color, often 2 feet long, which last for weeks. It is especially desirable for use with massed clumps of bamboos, other ornamental grasses, agaves, and the like. Clumps, 50 cts. and \$1.00.

CYMOPOGON CITRATUS. Lemon Grass. ** India. This makes clumps of long, narrow foliage, 4 to 5 feet high. It furnishes the oil of citronella and may be valuable as a money crop on South Florida lands. 15 cts. each, \$1.25 for 10, \$10.00 for 100.

"We know of no better authority than the catalog you get out." (Signed) E. M. WILLIAMS, Librarian, Tampa, Fla.

CYPERUS ALTERNIFOLIUS. Umbrella Grass. ** An unusual and attractive grassy subject, with long stems surmounted by expanded foliage somewhat suggesting an umbrella. It makes an attractive subject for border planting with bamboos and other grass-like materials on moist soil, but its great charm is best displayed when grouped in masses along the banks of streams, ponds, lakes, and in formal gardens near pools. It never reaches its artistic perfection without the proximity of water. 35 cts. each, \$3 for 10.

C. PAPYRUS. Egyptian Paper Reed or Moses' Bulrush. ** Here is the subject par excellence for planting at the edge of fresh water, or actually within its limits if shallow. The plump masses of long, thread-like leaves are borne on the ends of triangular stems, exceedingly graceful. Forms large clumps 6 to 10 feet tall on good rich soil. 50 cts. each, \$4.50 for 10.

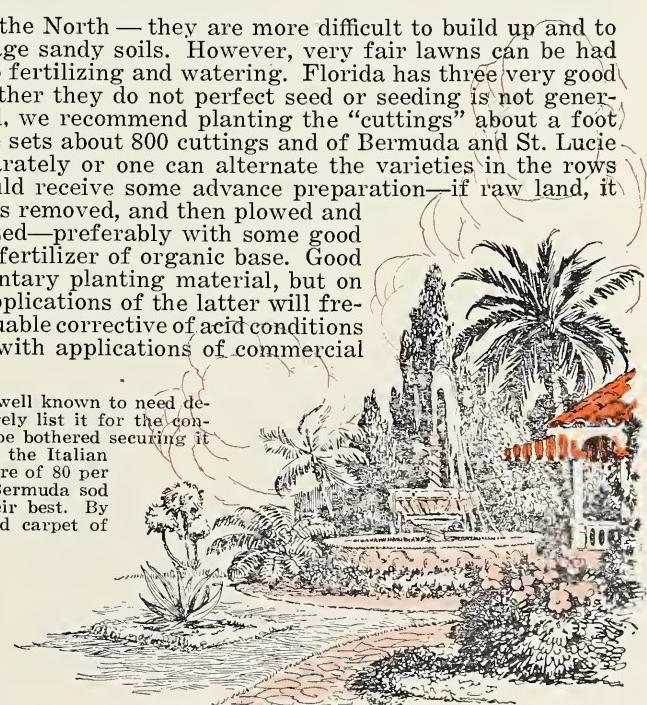
PANICUM PALMIFOLIUM. Palm Grass. ** A few clumps of this should be on every property of any size as it is invaluable for grassy borders, for limited use against stone or cement work of any kind, and the like. It is of exceptionally vigorous growth, producing long, arching, graceful leaves that very closely resemble those of palms in the young or "seedling" stage—hence its name. Good clumps will grow to a height of 6 feet in a single summer season, which is an added merit when considering quick effects. 25 cts. each, \$2 for 10.

Group V. Lawn Grasses, Etc.

Good lawns in Florida are far less common than in the North — they are more difficult to build up and to maintain, largely because of the character of our average sandy soils. However, very fair lawns can be had on most soils with a little special attention in respect to fertilizing and watering. Florida has three very good lawn grasses, all grown from "cuttings" as a rule, as either they do not perfect seed or seeding is not generally successful. Unless in a hurry to secure a heavy sod, we recommend planting the "cuttings" about a foot apart each way, in which case a bushel of St. Augustine sets about 800 cuttings and of Bermuda and St. Lucie about 1,500 cuttings. These grasses can be planted separately or one can alternate the varieties in the rows and "let the best man win." Of course, the ground should receive some advance preparation—if raw land, it should be thoroughly grubbed and all oak and other roots removed, and then plowed and harrowed down to good texture as well as being fertilized—preferably with some good dairy or stable manure or, if not that, with commercial fertilizer of organic base. Good black soil, rich in humus, makes an excellent supplementary planting material, but on dry soils this application should not be of raw muck—applications of the latter will frequently ruin the prospects of a good lawn. Lime is a valuable corrective of acid conditions and after the planting the lawn should be maintained with applications of commercial fertilizer, sufficient to keep the grass growing well.

CAPRIOLA DACTYLON. Bermuda Grass. ** This is too well known to need description and is common everywhere. We merely list it for the convenience of special customers who have small places and cannot be bothered securing it locally. It is the best grass to make a solid sod on which to plant the Italian Rye Grass for winter lawn—for this purpose we recommend a mixture of 80 per cent Italian Rye seed and 20 per cent Red Top, sown right on the Bermuda sod about two weeks prior to date you wish lawns to begin to look their best. By proper attention to mowing and watering you can have a splendid carpet of green grass until May. Bushel, \$1.25, by express.

STENOTAPHRUM SECUNDATUM. St. Augustine Grass. ** A splendid coarse-textured lawn grass which with proper attention makes a thick, springy sod preferred by many. Another special value is its ability to withstand the adverse conditions in the shade of large trees and thrives on a wide variety of soils. 50 cts. per 100 cuttings, \$1.50 per bushel by express.





The Tropical Grounds Book

Flowering Plants and Shrubs

THE GEM without its setting is still a gem — yet consider what it loses in effect. And a house or just a specimen tree or palm without flowering and ornamental shrubs is like that—a gem without setting—a picture without a frame. How many homes we see costing thousands of dollars that stare obtrusively into the public eye—they have none of that atmosphere of good taste and refinement so expressive of well-rounded personality and character. There they stand, piles of brick or stone or wood, without any serious effort to add that eloquent touch of simple dignity that well-ordered planting can give. Sometimes there are a few plants set out at random—some ragged ferns and an expressionless geranium or so—but no studied attempt at creating a real picture of the home. Of course, the trained landscape artist can secure better effects than can the person of inexperience—that would be expected. But a little good taste goes a long way when in conjunction with a real desire to accomplish something, and if the home owner will give a very little thoughtful attention to the earlier pages of this book on landscaping, as well as the remarks at head of departments, very satisfactory results can be obtained. And always keep before you this primary objective—purpose. Don't have a few meaningless specimens, forlorn and lonely, everlasting flaunting their charms before a sophisticated audience—but make them serve a purpose in securing picturesque effects. Don't consider the plants for themselves, but reflect on what way they can serve in building up a picture.

While there are frequently points at which only a single specimen shrub will serve, as a rule it is better to lean toward mass planting. It will be wise to avoid setting out a few exotic pets around the lawn at random; remember that every time you break up your lawn with specimen shrubs you are foreshortening your foreground; at times this is permissible, but be sure that this is the case before you do so. It is preferable and safer to pile up your shrubs in heavy borders around the confines of your grounds to give them better definition and to soften the larger angles with whole "families" of shrubs as the size of the grounds permits. Where you want color—use it. Make great splashes if need be to get the effect toward which you are working. If you are limited to the number you can use, either reduce the area of your picture or increase the open area in the center—but use what you have to plant, in mass formation. Where you need background, build it as nature would, with lavish abandon, creating a truly natural effect. And don't forget your sky-line—remember that you are planning for years to come.

As a help in color selection, the following classification will be found useful: the chief purpose of this booklet is to help in securing better gardens for Florida. The greater the degree of assistance we can render, the closer our work approaches the ideal we are striving to attain. In this work we trust that we can count on your co-operation—without it our objective will be impossible of attainment.

Suggestive Color Classification of Flowering Shrubs

(A) **RED SHADES.**—*Acalypha hispida*, *Cæsalpinia*, *Hamelia*, *Hibiscus*, *Jacobinia*, *Azalea*, *Lawsonia*, *Russellia*, *Lagerstræmia*, *Callistemon*, *Nerium*, *Lantana*, *Malvaviscus*, *Rose*, *Punica*, *Poinsettia*, *Ixora*, *Tecoma*.

(B) **PINK SHADES.**—*Abelia*, *Assonia*, *Bauhinia*, *Hibiscus*, *Lantana*, *Azalea*, *Hydrangea*, *Rhodomyrtus*, *Lagerstræmia*, *Nerium*, *Melastoma*, *Rose*, *Bixa*, *Abelia*, *Cestrum*, *Cryptostegia*.

(C) **YELLOW SHADES.**—*Allamanda*, *Arthotryps*, *Carica*, *Cestrum*, *Hibiscus*, *Lantana*, *Stenolobium*, *Jasminum*, *Leonotis*, *Michelia*, *Nerium*, *Rose*, *Ixora*, *Cassia*, *Viburnum suspensum*.

(D) **BLUE TO PURPLE.**—*Azalea*, *Bauhinia*, *Bougainvillea*, *Dædalacanthus*, *Duranta*, *Hydrangea*, *Lagerstræmia*, *Plumbago*, *Lantana*, *Strobilanthes*, *Tibouchina*, *Thunbergia*, *Asystasia*, *Melastoma*.

(E) **WHITE.**—*Bauhinia*, *Carissa*, *Cestrum*, *Chalcas*, *Datura*, *Jasminum*, *Lantana*, *Azalea*, *Oxyanthus*, *Thunbergia*, *Lawsonia*, *Tabernæmontana*, *Warneria*, *Hydrangea*, *Ligustrum*, *Laurocerasus*, *Coffea*, *Pittosporum*, *Rose*, *Tetrapanax*, *Viburnum*, *Raphiolepis*, *Vinca*, *Malaleuca ericifolia*, *Plumbago*, *Malpighia*, *Montonoa*, *Psidium*, *Lonicera*, *Baccharis*, *Cleyera*, *Hibiscus*, *Myrtus*.

Bear Attractive Berries or Fruits

Chalcas, *Duranta*, *Hamelia*, *Laurocerasus*, *Carissa*, *Coffea*, *Kumquats*, *Elaeagnus*, *Triphasia*, *Baccharis*, *Cestrum*, *Ilex*, *Eugenia*, *Lonicera*, *Ehretia*, *Vaccinium*, *Schinus*.

For Shady Situations

Try *Azalea*, *Severinia*, *Ligustrums*, *Hamelia*, *Hydrangea*, *Raphiolepis*, *Ehretia*, *Jacobinia*, *Elæagnus*.

For Winter or Early Spring Flowering

Acalypha hispida, *Assonias*, *Bauhinias*, *Bougainvilleas*, *Cestrums*, *Dædalacanthus*, *Azalea*, *Hibiscus*, *Lantana*, *Laurocerasus*, *Jasminums*, *Plumbagos*, *Russellia*, *Strobilanthes*, *Tabernæmontana*, *Stenolobium sambucifolia*, *Roses*, *Thunbergias*, *Pittosporum*, *Michelia*, *Tetrapanax*, *Malvaviscus*, *Raphiolepis*, *Cæsalpinia*, *Ixora*.

For Mucky, Rather Moist Soils

Don't forget *Oleanders*, *Azaleas*, *Myrica*, *Rhodomyrtus*, *Guavas*, *Baccharis*.

For the Seashore

This is partly a local matter, depending so much on the particular conditions and amount of exposure in each individual situation. However, the following have all been found quite resistant to salt spray and wind to a greater or less degree, and we suggest that those living close to salt water give them a tryout:

Acalypha, *Oleanders*, *Thevetia*, *Hibiscus*, *Guavas*, *Ixora*, *Dwarf Poinciana*, *Lantanias*, *Crotons*, *Datura*, *Carissa*, *Elæagnus*, *Lagerstræmia*, *Pittosporum tobira*, *Callistemon*, *Myrica*, *Severinia*, *Triphasia*, *Baccharis*, *Forestiera*, *Cestrum diurnum*, *Schinus*, *Duranta*, *Eugenia hookeriana*, *Coccobolis*, *Assonia*, *Ligustrums*, *Malvaviscus*, *Ehretia*, *Punica*, *Artobotrys*.

For Fragrance

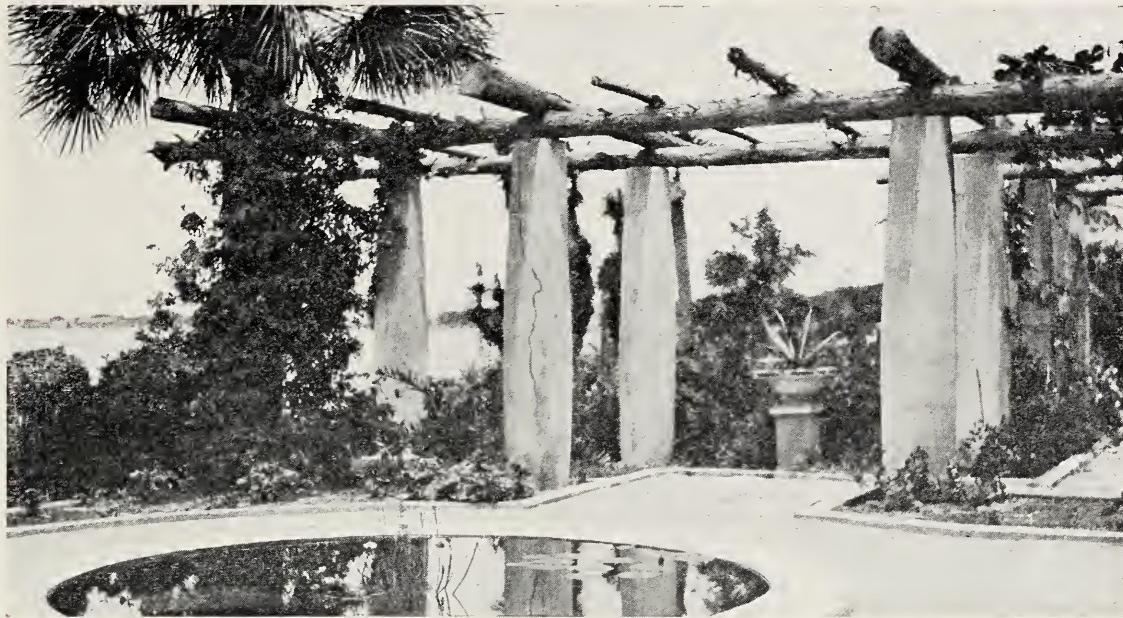
Every garden should make some special feature in this and nothing exceeds in fascination a few night-fragrant shrubs in a moonlit garden. We suggest the following:

Artobotrys, *Assonia*, *Chalcas*, *Bauhinias*, *Cestrum*, *Datura*, *Duranta*, *Coffea*, *Abelia*, *Jasminums* of course, *Lawsonia*, *Oxyanthus*, *Stenolobium*, *Tabernæmontanas*, *Warneria*, *Laurocerasus*, *Roses*, *Michelia*, *Nerium* (especially *Splendens* and *Madonna grandiflora*), *Pittosporum*, *Viburnum*, *Carica*, *Raphiolepis*.

SPECIAL NOTICE.

Nearly all plants in this department are pot-grown and may be transplanted at any time of the year, though in Florida we prefer spring and summer. The exceptions are so noted in descriptions and should be handled during the cooler months, say from November to March. Those shrubs marked T are in the tropical class and should only be planted within the confines of this state and the Tropics, or other protected situation, or for use in conservatory or house decoration. In Florida, generally, when frozen they are just cut to the ground and most sorts will come back vigorously and flower the same year. Those marked H are harder and will stand the winters of the lower South without injury, or, if damaged by freezes, will come up again vigorously in the spring. All are evergreen except *Hydrangea*, *Lagerstræmia*, and *Sesbania*.

The subjects listed in this department are suitable for use in greenhouses and conservatories and in some instances can be grown as pot plants in living-rooms, but their special value is, of course, for planting out in open ground in the extreme South and the Tropics. In the subtropical zone, where there is danger of freezing, the stems should be banked somewhat, at first signs of hard frost, to prevent freezing to the ground—as a rule tropical shrubs come back quickly after being frozen down and flower the following summer as usual.



A Garden at Sarasota Suggesting Mediterranean Atmosphere

Group I. Especially Suitable for House Foundation Work

The planting of the foundation of the home should be the first consideration when dealing with shrubs, as an unplanted house is most conspicuously unattractive. And the fact that a certain shrub will in years attain a height of 6 to 8 feet, or even more, should not debar it from this use if it is otherwise suitable—keep it down with annual pruning, which should be done anyway around any well-ordered home. As a rule, the plants of small- to medium-sized foliage, and those with a more or less drooping tendency, are to be preferred, though around large public buildings this rule need not be so rigidly applied. Remember that long lines of a building can be beautifully emphasized by long, straight plantings and broken lines brought out by broken group plantings. Depressions can be made more effective and corners swelled by appropriate planting, and the various features that make the real character of the building can be very strikingly accentuated if properly handled.

The following list is not complete because there are so many situations requiring individual treatment; we make this classification as a help to those in doubt. Experienced planters will, of course, be guided by their own judgment; their list would include many more than we indicate because they appreciate better the usableness of all shrubs with which they are familiar.

ABELIA GRANDIFLORA. Abelia. H. A very satisfactory evergreen shrub with long, willowy growth. Foliage turns a pretty metallic bronze in winter. Flowers tubular, white with pink base, delicately scented, freely produced in clusters from April to November. Field-grown plants, 50 cts., \$4.50 for 10; extra heavy, 75 cts., \$6.50 for 10.

CHALCAS PANICULATA. Orange Jessamine. T. India. A very beautiful shrub attaining a height of 10 to 12 feet, with dark green, glossy compound leaves and campanulate, fragrant white flowers resembling orange blossoms, coming several times a year. Does splendidly on the "sand hills" of Polk County. 25 cts. each, \$2 for 10; heavy at 50 cts.

DURANTA plumieri. T. See page 27.

EUGENIA uniflora. See page 24.

FORESTIERA PORULOSA. Florida Privet. T. An evergreen shrub resembling a small-leaved privet, of dense growth, thriving very close to the seashore, withstanding salt spray well. 35 cts. each, \$3 for 10.

IXORAS. T. See page 27.

JASMINUM PRIMULINUM. Primrose Jasmine. H. China. One of the best introductions of recent years, blooming in early spring and hardy as far north as Washington. A drooping shrub with attractive foliage and beautiful golden yellow flowers as large as a half dollar, opening flat, scented, blooming in long sprays and when cut, keeping in water indefinitely. An exceedingly valuable shrub or vine. 35 cts. each, \$3 for 10; larger, 50 cts.

J. PUBESCENTS. Downy Jasmine. ST. While this woody plant can be used as a vine if given support, it is much more frequently

used as a shrub. Its especial value is for banking against house foundations, especially those of dark tones, and for low bedding work in the little formal touches around buildings or other structural features. The prominent white flowers are borne in profusion periodically throughout the year. Strong stock, 35 cts. each, \$3 for 10.

J. GRACILLIMUM. Star Jasmine. ST. Resembles the preceding, except in the structure of the flower which is narrow-petaled and distinctly star-shaped. 35 cts., \$3 for 10; extra heavy, 50 cts., \$4.50 for 10.

LAWSONIA INERMIS. Henna or Camphire of Solomon. T. East Tropics. A handsome, upright shrub of open, airy leaf-texture and light in color tone. The very fragrant white flowers are produced in profusion in small spikes. Altogether a very charming subject that succeeds on a variety of soils, even the high, sandy ridges of South-Central Florida, where it does especially well. 75 cts., \$6.50 for 10.

L. RUBRA. Red Henna. T. Similar to preceding form except the petals are dark coral-red. One of our recent introductions. Strong plants, 75 cts., \$6.50 for 10.

LIGUSTRUMS. See pages 24 and 25.

PHYLLANTHUS NIVOSUS PURPUREUS. Purple Leaf. T. This is a particularly desirable shrub for use in plantings against brick and masonry structural work and general foundation work of all sorts. The leaves are soft in texture and a rich, warm, purplish brown or bronze coloring, according to condition and exposure to sun. 35 cts., \$3 for 10; heavier, 50 cts., \$4.50 for 10.

PITTOSPORUM tobira. See page 25 for description.



PLUMBAGO CAPENSIS. Blue Leadwort. T. South Africa. This is one of the showiest and most satisfactory of flowering shrubs for Southern Florida, bearing almost constantly a wealth of phlox-like flowers of light sky-blue color. Foliage small, soft, and light green. Very attractive. 35 cts. each, \$3 for 10.

P. CAPENSIS ALBA. White Leadwort. T. Same as preceding except flowers are pure white and growth somewhat more vigorous. 35 cts., \$3.00 for 10.

RHODOMYRTUS TOMENTOSUS. Downy Myrtle. ST. South Asia. A semi-hardy shrub, growing 6 to 10 feet high, of great value for South Florida, where it grows freely on almost any soil, especially wet, flat woods. The foliage effect is gray to olive-green, and the rosy pink flowers, suggesting wild roses in color and form, come in quantities in late spring and early summer, followed by edible blackish berries. See Fruit Department for description of valuable fruit. 35 cts. each, \$3 for 10; larger, 50 cts. each.

STROBILANTHES ANISOPHYLLUS. Lavender Bell. T. India. A small bush with narrow leaves producing countless lavender flowers in winter and early spring. Makes an excellent pot plant for house or conservatory. 35 cts.

S. ISOPHYLLUS. Hedge Flower. T. India. A small-growing

border plant reaching a height of not over 3 feet, with purplish blue flowers suggesting the petunia in appearance, about $1\frac{1}{2}$ inches across. Valuable for edging along foundations and use in formal gardens, and the like. 25 cts. each, \$2 for 10.

THUNBERGIA ERECTA. King's Mantle. T. West Africa. One of the very finest of foundation-plant subjects for South Florida planting. It makes a dense shrub 4 to 5 feet high with most attractive, smooth, dark green leaves. It bears continuously throughout the year gloxinia-like flowers 2 inches across with dark purple corolla and orange-colored throat. It is particularly charming in foliage texture when combined with *Jasminum pubescens*. 35 cts. each, \$3 for 10; larger, 50 cts. each.

T. ERECTA ALBA. White Mantle. T. The same as the foregoing except that the flowers are a trifle smaller and white with yellow throat. 35 cts. each, \$3 for 10; heavier, 50 cts. each.

VIBURNUM SUSPENSUM. (V. sandankwa.) H. Loochoo Islands. A new shrub for Florida planters, of spreading habit with large, dark green, elliptical leaves with scalloped edges. The fragrant flowers are cream-colored and borne in clusters in February, and are followed by red fruits. Attains a height of 8 feet, but may be kept down to any height desired. Prefers partial shade during the heat of summer. 75 cts., \$7.00 for 10.

Group II. Valuable Subjects for Sheared Hedges of Formal Character

Properly used, the formal hedge is invaluable for certain situations, as, for example, bordering a grassed alley on either side and backed by towering shade trees, or rows of fruiting orange trees, or for enclosing the formal garden, or delineating property lines of smaller places under certain conditions. But the sheared hedge is sometimes overdone, when it can be obtrusively out of place—some places are overhedged. In planting the hedge it is best to trench the ground at least 2 feet wide and 18 inches deep, and on poorer soils that need building up the trench should be larger. Liberal applications of rotted manures should be made and thoroughly spaded in, and the plants should be set quite close in order, not only to get quicker effect, but, what is more important, to better keep the hedge within proper bounds. The exact distance will depend on the subject used and the size hedge desired—which depends on the effect sought. We suggest the following as being especially desirable:

CARISSA ACUMINATA. Hedge-Thorn. T. This species is more compact and has smaller foliage than the more commonly known *Carissa grandiflora*. The dense thorny growth makes it admirable for defensive hedge purposes. The small, bright red fruits are not of special value. Seedlings, 35 cts., \$3 for 10.

CHALCAS paniculata. T. See page 23.

EHRETIA MICROPHYLLA. Philippine Tea. ST. With *Eugenia hookeriana*, we consider this one of our most valuable additions made to the shrubs of the state in a long time. Just how hardy it will prove to be here we do not know, but feel safe in recommending it to South Florida generally and suggest it for trial to all growers on the peninsula. It makes, ultimately, a large-sized shrub, is of very vigorous growth, fairly compact, with most attractive rough foliage, olive-green above, light green beneath. Pruning does not impair its growth or vitality whatever, only serving to make it more dense and attractive. The tiny flowers are pendent from the branches and are followed by small, dark, amber-colored fruits. 35 cts. each, \$3 for 10; heavier, 50 cts., \$4.50 for 10.

EUGENIA HOOKERIANA. Bush Cherry. ST. (?) Australia. This is by all odds one of the most promising shrubs that we have added to our lists for a long time. Just how hardy it will prove is still a matter for conjecture, but we know that it is not in the tropical class and probably it

will prove sufficiently hardy over most of the state for general planting. It makes a large shrub, horizontal branching, with glossy green, elliptical leaves about $2\frac{1}{2}$ inches long, and bearing attractive red fruits. Heavy plants, 75 cts., \$7 for 10.

E. UNIFLORA. Surinam Cherry. T. If you wish a low-to-medium-sized hedge of compact growth, small foliage, and one that will shear to perfection, use this. For bordering small grass-plots, edging around formal garden areas, and the like, it is without a peer wherever sufficiently hardy. See Fruit Department. 25 cts. each, \$2 for 10; larger, 35 cts. each.

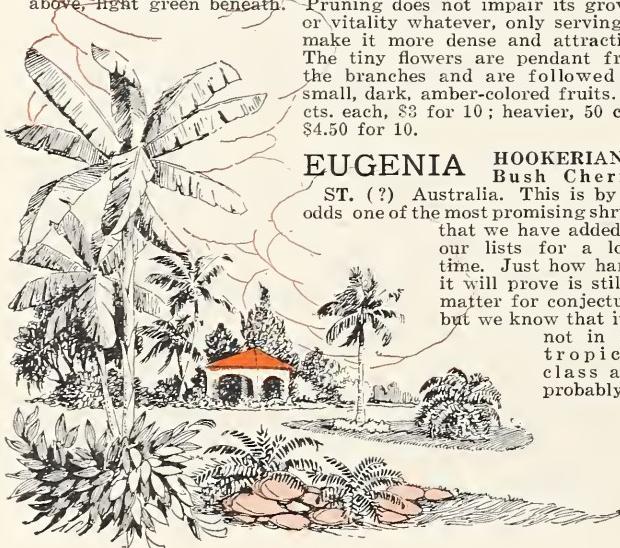
FORESTIERA porulosa. See page 23.

LAUROCERASUS CAROLINIANA. Carolina Laurel Cherry (erroneously "Cherry-Laurel"). H. A splendid native, broad-leaved, evergreen shrub of comparatively slow growth but attaining large size, with firm, dark green, glossy foliage. The small, fragrant flowers are in numerous close racemes and are followed by glossy, greenish-black fruits. Fine for hedges and general planting. Nice stock in 3-inch pots, 15 cts. each, \$1.25 for 10; larger, 25 cts. each, \$2 for 10.

LIGUSTRUM AMURENSE. Amoor River Privet. H. Japan. A medium-to-large-sized shrub of bristling growth and small foliage that makes it especially valuable for sheared hedge-work, though we do not advise it for extreme South Florida. The small, white flowers are borne in erect, many-flowered panicles. 1-yr., 15 cts. each, \$1 for 10, \$8 per 100; 2-yr., 35 cts., \$3 for 10; extra heavy, 50 cts.

L. LUCIDUM. Wax Privet. H. One of the handsomest of broad-leaved evergreens for Florida hedges. It makes a large-sized shrub with large, strong, dark, glossy-green leaves, and bears dense panicles of white flowers. In addition to being a valuable hedge plant, however, it is not only important for securing massed effects in the border but for individual specimens, and the like, and as it is perfectly hardy cannot be recommended too highly for general planting throughout the state. From pots, 75 cts. each; from open ground, strong plants, \$1.50 each. We can also furnish an extra fine line of heavy stock dug and balled from open ground—prices on application.

L. OVALIFOLIUM. California Privet. H. Japan. A magnificent, strong-growing shrub attaining 15 feet, with bright green, medium-sized leaves. The white flowers, in panicles, come in June. 1-yr., 25 cts., \$2 for 10, \$15 per 100; heavier plants, 50 cts. and \$1 each.





Royal Palm Nurseries. Oneco, Fla.

L. NEPALENSE VARIEGATUM. Variegated Nepaul Privet. H. A splendid plant for hedge-work, borders, or single specimens but of somewhat more upright growth than the preceding and with smaller, thick, glossy foliage. While the leaves are variegated, this variegation is not objectionably prominent, and it might almost pass as a solid yellowish green. It does well on dry soils when once established. The bloom comes in spring and consists of large, dense panicles of white flowers. 35 cts., \$3 for 10; heavier, 50 cts.

MICHELIA FUSCATA. Banana Shrub. H. China. A fine, large shrub of compact growth and attaining 10 to 15 feet in height, perfectly hardy in the Middle and Lower South. The broad, dark green, glossy foliage is very ornamental, resembling that of a magnolia, only smaller. The flowers are an inch across, or larger, brownish yellow edged with light carmine, with an unusual banana-like fragrance, and coming from March to May. Makes a splendid sheared hedge of medium to rather large dimensions. A fine subject worthy of more extended planting. 50 cts., \$4.50 for 10; \$1 each, \$9 for 10; heavier, \$2 each, \$18 for 10.

MYRICA CERIFERA. Wax Myrtle. H. Native. One of the most attractive evergreen shrubs or small trees for hedge-work or general lawn planting. The foliage is a rich olive-green and the growth, when unrestrained, is vigorous and makes a great, billowy mass. The berries, which make a marketable wax, are slate-colored and add a touch of grayish blue to the olive-green of the foliage, which is particularly charming. As a hedge it shears well and makes a dense, massive wall. The fact that it will do so well along the seashore of the coast, standing heavy salt wind and spray, is also greatly in its favor and should much increase its popularity. Strong plants, 25 cts., 50 cts. and \$1.

PITTOSPORUM TOBIRA. Tobira Shrub. H. China and Japan. Hardy, woody shrub, especially valuable as a hedge subject, specimen plants of which attain 8 to 10 feet. The leaves are thick and leathery, dark, glossy green, forming lovely rosette-like growths, and the creamy flowers, fragrant but of small size, come in March. Especially valuable for seashore planting, notwithstanding strong salt winds exceedingly well.

PRICES ON PITTOSSPORUM TOBIRA.

Each	10	100
\$.35	\$ 3.00	\$25.00
.50	4.00	37.50
1.00	9.00	85.00
2.00	18.00
4.00

PSIDIUM CATTLEYANUM. Cattley Guava. ST. So widely is this known as a fruiting shrub that its value as an ornamental has been generally overlooked. As a matter of fact, it is one of our most valuable subjects, especially for hedge- and border-work, and thrives in very dry situations. The foliage is most attractive and effective, being a rich, dark, glossy green which makes a most pleasing contrast with the light-brown tint of the bark of the young wood. It stands shearing perfectly. In summer they are made more attractive by the large, deep-red fruits. See Fruit Department. Small, pot-grown plants, 15 cts. each, \$1.25 for 10; strong plants, 25 cts. each, \$2 for 10; heavier, 35 cts. each, \$3 for 10; extra heavy, 50 cts. each.

RAPHIOLEPIS INDICA. Indian Hawthorn. H. Low-branched shrub with thick, roundish, evergreen leaves and pinkish-white flowers, sweet-scented. This requires a soil of fairly heavy nature—it will not succeed on poor, thin lands. 50 cts. each, \$4.50 for 10; larger, \$1.

SEVERINIA BUXIFOLIA. Thorn-Berry. H. Timor. A very handsome, dwarf shrub, related to the orange tribe, of great value for ornamental hedge-work in Florida. Quite hardy, standing as low a temperature as 20 degrees Fahr. without injury. Beautiful, dark-green foliage of compact growth, with glossy black berries that add to the shrub's attractive appearance. Nice stock, 25 cts. each, \$2 for 10; \$18 per 100; stronger, 35 cts. each, \$3 for 10; extra strong, 50 cts. each.

TRIPHASIA TRIFOLIATA. Limeberry. T. China. A valuable plant of low, horizontal, compact growth. One of the best subjects for smaller growing hedges in extreme South Florida and well-protected places. Leaves are small, dark green and trifoliate, the small flowers white and sweet-scented, and the reddish fruits are sweetish, sometimes used for preserving. 35 cts. each, \$3 for 10.

Group III. Mass Plantings

There are a number of very sound reasons for the massing of plants; this practice is the outcome of generations of the best thought and not just a mere fancy or fad. The next time you are driving through the country, study a hammock growth or any other of nature's massed plantings; note the various textures of the different subjects which are emphasized when in close proximity. Note the difference in expression of the various groups, then go home and if you have been following the too frequent practice of scattered plantings, compare the effect you have with that secured by nature. Nine chances to one you'll agree with the landscape man and readily catch his point of view. Remember there is as much real art in getting expression in foliage textures as with flowers—probably more so. But this is only one of the several reasons; you will acquire the others readily enough if you will apply a few minutes' study to the subject on your little trips around the country. Try it—you will be surprised at the real enjoyment and the deeper understanding of nature it will mean to you.

There are, roughly, three grades of mass planting—high, low, and intermediate—according to the habit of growth and amount of pruning done—high for background, low for foreground.

(a) Low Mass Plantings

ALLAMANDA NERIFOLIA. Bush Allamanda. T. This makes a low- to medium-sized shrub with bright yellow flowers about 2 inches across that are slightly darker than the more commonly known *A. hendersonii* and *A. Williamsii*, and also less flaring and more tubular. Just the thing to plant back of *Plumbago capensis*. 35 cts.

OTHER VARIETIES OF ALLAMANDAS, listed under vines, can also be used with splendid showy effect as low shrubs.

ASYSTASIA GANGETICA. Coromandel. T. India. A pretty little shrub about 4 feet high, with axillary racemes of deep lilac flowers in summer. 25 cts., \$2 for 10.

DAEDALACANTHUS NERVOSUS. Blue Sage. T. India. A shrubby plant growing 2 to 4 feet high with large, coarse, dark green leaves and axillary spikes of deep blue flowers, coming in winter. 25 cts., \$2 for 10; heavier, 35 cts., \$3 for 10.

JACOBINIA COCCINEA. Cardinal's Guard. T. Brazil. An erect, shrubby herb growing about 4 feet high, with broad, elliptic, glossy green leaves and crimson flowers in terminal spikes, blooming constantly. Valuable as a border plant and for planting along streams and ponds and in moist woods. 25 cts. each, \$2 for 10.

JASMINUM primulinum. See page 23.
J. PUBESCENS. See page 23.

LONICERA NITIDA. Border Honeysuckle. H. An upright evergreen honeysuckle, of small size, lately introduced. It has very small foliage and white flowers followed by purple berries. Fine for low hedges. 50 cts., \$4.50 for 10.

MALPIGHIA COCCIGERA. T. West Indies. A charming little shrub with small, glossy green, prickly leaves resembling holly, with bright pink flowers followed by scarlet berries. Fine for a very dwarf hedge. Strong plants, 50 cts.

PLUMBAGO capensis. See page 24.

RAPHIOLEPIS indica. See above.

SEVERINIA buxifolia. See above.

STROBLANTHES (both species). See page 24.

TABERNAEMONTANA CASHMERE. Pinwheel Flower. T. India. This is one of the best white flowering shrubs we know, growing about 3 to 5 feet high. The leaves are very dark, glossy green, wavy-margined, and the flowers, borne in profusion periodically throughout the year, are single, white with yellow dot in center, and very attractive. 50 cts.

VIBURNUM suspensum. See page 24.

VINCA alba. See page 40.



(b) Intermediate Mass Plantings

ABELIA grandiflora. See page 23.

ARTOBOTRYS ODORATISSIMUS. False Ylang-Ylang, or Cinnamon Jasmine. T. Asia.

A choice flowering shrub, semi-climbing in habit, valuable for planting against pergola columns and other support in extreme South Florida, with broad, glossy leaves and bearing yellow flowers with a delightful fragrance like that of ripe bananas and pineapples. The fruit is also highly fragrant but inedible. Fine plants, 50 cts. each, \$4.50 for 10.

AZALEA INDICA. Indian or Chinese Azalea. H. If you happen to have a piece of hammock land on your

property, especially one pitching off in a steep, spring bank—and if you love flowers and brilliant colorings in great masses—then you are in luck! At strategic points along the path that winds through the woods, cut out areas of the underbrush and plant to Chinese Azaleas—the big-flowered ones that give great splashes of colorings to the winter and spring woodlands. You will be surprised to see dull, drab shadows spring into life and gaiety. Don't use any lime in planting—just plenty of well-rotted muck and manure, especially on the thinner, poorer soils. Of course, if you haven't such a woodland, do the next best thing—plant them on the shady side of your house or amongst the larger shrubs. While they rejoice in shady situations, they should not want for ample sunlight for best results, especially during the morning, and little extra attentions, such as fall applications of leaf-mold or something of the kind as a protecting mulch, will be well repaid by the added magnificence of the floral display in the spring. Our plants are all the large, single-flowered sorts, in white, pink, lavender, mauve, and shades of red, variegated, etc. Strong plants, \$2 to \$3.50.

BACCHARIS HALIMIFOLIA.

Salt Bush. H. A perfectly hardy native shrub of good growth and habit which, during the late fall and early winter, is a cloudy mass of soft, downy white material used by nature for transporting seeds. Attains a height of 10 feet or more. Strong plants, 25 cts. each, \$2 for 10; very heavy, 50 cts. each, \$4 for 10.

BOUGAINVILLEAS

IN VARIETY. While more properly classified as vines, these wonderfully floriferous subjects, in varying shades of purple to crimson-lake-red, can be handled as shrubs if properly trained. The common *B. glabra sandericana* is particularly shrubby in its growth and is the best of the group for this purpose. When planted in conjunction with floriferous white-flowered subjects, such as white oleanders or *Jasminum pubescens*, it is marvelously effective. See Vines for descriptions and prices.

CAESALPINIA

PULCHERRIMA. Dwarf Poinciana, or Barbados Flower Fence. T. Tropics. A superb shrub 6 to 10 feet high, with elegant pinnate foliage, surmounted during the greatest portion of the year by great terminal clusters of the most gorgeous red and yellow flowers. A very showy plant, suitable for conservatories, for bedding out in summer at the North, and for permanent shrubberies in Florida and the Tropics. Nice young stock, 35 cts. each, \$3 for 10.

CALLISTEMON Bottle Brush.

These are particularly interesting shrubs for South Florida planting,



The Flaring Red-and-Yellow Dwarf Poinciana
(*Caesalpinia Pulcherrima*)

doing especially well on our highlands of the lake region without irrigation. The Callistemons are all quite hardy, standing temperatures under 25 degrees Fahr. The quantity of blossom-spikes may be increased by judicious fall pruning and occasional applications of commercial fertilizers.

C. LANCEOLATUS. H. Australia. A splendid shrub of willowy growth, reaching a height of 6 to 12 feet, with long, narrow leaves and bright red flowers in thick spikes resembling bottle-brushes, whence the name is derived. These are very attractive and last some time in perfection. Strong plants, \$1 each, \$9 for 10.

C. RIGIDUS. H. Australia. Stiffly branched shrub, lower and more stocky in habit than the preceding, with narrow leaves 3 to 4 inches long, and dense spikes of large, deep red flowers. Fine plants, 75 cts., \$6.50 for 10.

CASSIA CORYMBOSA. T. Argentine. A small, graceful shrub up to 6 feet high, with slender branches and fine foliage, and a profusion of yellow flowers in fall. 25 cts., \$2 for 10; 50 cts., \$4.50 for 10.

CATHA EDULIS. Khat. T. Arabia. The leaf of this remarkable shrub, filling the role for the Yemen Arab that the poppy flower does for the Chinese and the coca plant for the South American, is a stimulant like alcohol without the latter's deleterious effects. It makes a sturdy plant 5 to 10 feet high, its appearance varying with the characteristics of the soil in which it is grown, with red stems and dark, glossy, evergreen foliage much resembling the camellia. \$1, \$9 for 10.

CESTRUM This represents one of the most attractive groups of flowering shrubs for South Florida particularly, where the various members can be used to special advantage in landscape and general garden culture, not only because of the beautiful floral effect but because, to a large extent, they produce a wealth of bloom during the fall and winter months.

C. AURANTIACUM. Maiden's Faver. T. Guatemala. A shrub with long, pendulous branches, soft oval leaves, and panicles of orange-yellow blossoms in profusion. 35 cts.

C. DIURNUM. Day Jessamine. T. A large, quick-growing shrub of upright habit, growing well in poorest soils and producing quantities of small, tubular white flowers at intervals throughout the year; valuable for cut-flower work. This subject is desirable for seashore planting, growing right along the shore on the lower Florida Keys where it is subjected to severe salt spray. 35 cts.

C. ELEGANS. Red Coral Jessamine. T. Mexico. Tall, semi-climbing shrub, with a profusion of rose-pink and carmine flowers borne in loose, nodding clusters at the ends of the branches, blooming most of the year. 35 cts., \$3 for 10.

C. NOCTURNUM. Night-blooming Jessamine. T. A large, rank-growing shrub with flowers greenish in color, opening about sundown, and emitting a very heavy fragrance. This blooms at intervals throughout the year. 35 cts. each, \$3 for 10.

CHALCAS paniculata. See page 23.

CLEYERA JAPONICA. H. Japan. A smooth-leaved evergreen shrub of medium size, with fragrant, creamy-white flowers. 50 cts.

CRYPTOSTEGIA

MADAGASCARIENSIS. Rubber Vine. T. While properly a vine, this can be used as a striking subject in the shrubbery border by giving it a stake support from which it will hang as a dense mass. See Vine Department.



Royal Palm Nurseries, Oneco, Fla.

DURANTA PLUMIERI. Golden Dewdrop. T. American Tropics. One of the most attractive shrubs of Florida gardens, of good size, reaching 10 to 15 feet, spreading, with graceful pendulous branches. Delicate lilac flowers borne in profusion in racemes toward the ends of the branches, blooming several times a year. The yellow fruits, like small pendant golden balls, also numerous, make a charming contrast with the flowers. This makes a very attractive foundation shrub when planted against a large building, as its small foliage and pendulous effect lend just the proper atmosphere for such location. 35 cts. each, \$3 for 10; larger, 50 cts. each.

ELÆGNUS REFLEXA. Climbing Oleaster. A remarkably vigorous climbing form of the

Silver Thorn, making a scandent shrub, the younger twigs brown, the leaves green above and silvery beneath with a bronze cast. If given support will make a vigorous vine, though with systematic pruning such as all the Elægnus should have, especially when young, it will mature into a very desirable shrub. Strong plants, 75 cts., \$6.50 for 10.

E. SIMONII. Simon's Oleaster. H. Foliage elongated, silvery beneath; compact growth; edible fruit. 75 cts.

EUGENIA uniflora. See page 24.

FORESTIERA porulosa. See page 23.

HAMELIA ERECTA. Scarlet Bush. T. American Tropics. This is a beautiful shrub for Florida planting,

ing, growing to 8 feet high, with attractive green foliage setting off the bright orange-scarlet flowers to advantage. In cool weather the foliage turns a rich bronze color or, in exposed situations, is shed entirely, to come out vigorously with the return of warmer weather. Not suited to exposed seashore planting. 35 cts. each, \$3 for 10.

HIBISCUS ROSA-SINENSIS. Chinese Hibiscus. T. This is one of the most striking and satisfactory shrubs for Florida planting, and with the new varieties we have originated it is now possible for gardens to have a wide range of pink, red and salmon shades. The plant is of quick growth and while subject to frost injury, being frozen down under ordinary conditions at about 28 degrees Fahr., still it has strong powers of recuperation and will come right up and bloom again within a few months as vigorously as ever. Not only is this subject adapted to single and group planting but does exceedingly well in hedge formation, standing clipping well, and, where properly cared for in respect to fertilizing, makes a continuous sheet of dark green foliage and large, bright flowers. By shearing they can be trained as standards, in the single specimens very satisfactorily.

Note on Field-Grown Plants: All field-grown Hibiscus will be cut back hard and defoliated and shipped with bare roots like Citrus trees. When customer especially desires Hibiscus from the field to be balled, add 25 cts. to the price of each plant.

We have introduced a number of new forms of exquisite shades, some of which are noted in the following descriptions:

AURANTIACUS. Splendid, double, orange-yellow form. 50 cts., \$4.50 for 10.

DOUBLE PINK. A very rich carmine-pink flower of lovely appearance, resembling a fine peony, but do not confuse with the light pink Peachblow. 35 cts., \$3 for 10; larger, 50 cts., \$4.50 for 10; heavy field-grown stock, \$1, \$9 for 10.

DOUBLE SCARLET. A deep scarlet-colored flower of most attractive appearance. The plant is not so rapid in growth as the single-flowered varieties, but is free-blooming. 35 cts., \$3 for 10; larger, 50 cts., \$4.50 for 10; heavy field-grown stock, \$1, \$9 for 10.

EUTERPE. A large, single flower, the broad petals yellow with small, reddish veins, shading through a delicate violet into the intense red center. Yellow beneath with prominent veins, shading into white toward the calyx. Leaves delicately veined and rather small. General effect of flower is salmon; profuse bloomer. Strong stock, 25 cts. each, \$2 for 10; extra large, 35 cts. each, \$3 for 10; heavier, 50 cts., \$4.50 for 10; heavy field-grown stock, \$1 each, \$9 for 10.

MELPOMENE. Large, single flower, beautiful satiny pink, with darker pink nerves and deep crimson center. Petals colored half pale yellow and half pale pink on under side where the prominent nerves give it a crepe-like appearance. Our most beautiful new variety. \$1 each, \$9 for 10.

MINERVA. Large, single, open flower, 6 inches across, petals only slightly reflexed. Color satiny shell-rose shading to crimson center. Reverse of petals also shell-rose color. 35 cts., \$3 per 10; heavy, field-grown stock, \$1 each, \$9 for 10.

PEACHBLOW. A very beautiful double flower of a pale pink color, with dark center. Do not confuse the dark carmine-pink variety, Double Pink, with this. 35 cts. each, \$3 for 10; heavier, 50 cts. each, \$4.50 for 10; heavy, field-grown, \$1 each, \$9 for 10.

PSYCHE. Dainty, rich scarlet-red blossom, very small, open form, petals curved upward and outward, with edges deeply cut and the entire surfaces of a crepe-like texture. 50 cts. each, \$4.50 for 10.

SCHIZOPETALUS. Fuchsia Hibiscus. A small, single flower with peculiarly cut and twisted petals, pinkish-red in general

color. Flowers droop over gracefully, like a fuchsia. 50 cts. each, \$4.50 for 10.

SINGLE SCARLET. The most gorgeous sort we grow, with flaming flowers at all seasons. The best sort for hedge-work, especially if it is to be sheared. Strong stock, 25 cts. each, \$2 for 10; extra heavy, 35 cts. each, \$3 for 10; heavier, limited number at 50 cts. each, \$4.50 for 10; heavy, field-grown stock, \$1 each, \$9 for 10.

TERPSICHORE. Medium-sized, single flower, with crepe-like light pink petals having numerous darker pink veins, all shading to the dark red center. 35 cts. each, \$3 for 10; heavier, 50 cts. each, \$4.50 for 10; heavy, field-grown plants, \$1 each, \$9 for 10.

THALIA. A single flower with silky, crepe-like pink petals and burnt sienna center; light pink and cream on reverse side. Very dainty. 35 cts. each, \$3 for 10; heavy, field-grown stock, \$1 each, \$9 for 10.

URANIA. Large, single flower; petals light salmon, with faint pink nerves and lovely light pink center; lighter beneath and nerves prominent; has a crepe-like effect. 35 cts. each, \$3 for 10; heavier, 50 cts. each, \$4.50 for 10; heavy, field-grown stock, \$1 each, \$9 for 10.

VENUS. One of the nicest varieties we have, a free-growing sort with large, attractive foliage, and a profuse bloomer. Magnificent, large, open flower, single, 6 inches across, very pale pink with satiny-pink veins, center of flower an irregularly margined, prominent crimson "eye." 35 cts. each, \$3 for 10; heavy, field-grown stock, \$1 each, \$9 for 10.

WHITE WINGS. A single-flowered sort. When first open the flower is a very pale pink, which rapidly fades to white. Something very choice. 50 cts. each, \$4.50 for 10.

IXORA This genus includes a wide range of very showy-flowered tropical shrubs of which the following varieties are especially well suited to South Florida planting and for conservatories in more northerly latitudes, not only for their heads of bright flowers but for the glossy, ornamental green foliage as well. The flowers generally are characterized as small and in dense corymbs or "heads," and, though showy, of a waxy finish distinctive and attractive.

I. FLORES-LUTEA. T. One of the loveliest of the group, with flowers of a clear waxy-yellow color. 50 cts. each, \$4.50 for 10.

I. COCCINEA. Flame-of-the-Woods. T. Flowers in gorgeous umbels of a waxy-red color. 50 cts. each, \$4.50 for 10.



Bottle Brush Shrub — Callistemon



The Tropical Grounds Book

HYDRANGEA HORTENSIS. French Hydrangeas. H.

A deciduous shrub with large, coarse leaves and round heads of flowers in exquisite shades. Although frequently used for foundation plantings, it is not adapted to this use, being deciduous, with a long dormant period. Color of the pink and blue sorts is variable according to the acidity of the soil; for blue the soil should be acid, with plenty of humus and organic manures; for pink color use lime and chemical fertilizers, no humus.

AVALANCHE. White.

E. G. HILL. Bright pink.

BOUQUET ROSE. Pink.

MOUSSELINE. Blue.

Price, 50 cts. each, \$4.50 for 10; extra heavy, \$1 each.

OAKSA. Pink or blue (depending on soil), 50 cts.

TROPHEE. (New.) Red, \$1.00.

ILLICIUM ANISATUM. East Indian Anise. H. Japan. A handsome, broad-leaved, evergreen shrub of large size, 10 to 12 feet high, about as hardy as the Camellia. The aromatic foliage is fragrant when bruised. 50 cts., \$4.50 for 10; specimens in tubs, \$5 each.

JASMINUM FLORIDUM. H. A new variety of the hardy type, resembling *J. primulinum* in foliage but of more vigorous, upright growth. Very promising. 35 cts. each, \$3.00 for 10.

LANTANA Tropical America. A genus of very gorgeous shrubby plants, all of which grow to perfection in Florida, on almost any kind of soil. If frozen back they come up from the roots better than ever and are soon in flower. We have several choice varieties, all 25 cts. each, \$2 for 10.

PINK AND YELLOW. WHITE.

YELLOW AND ORANGE. YELLOW.

GRAND SULTAN. Red.

LAUROCERASUS caroliniana. See page 24.

LAWSONIA. See page 23.

LEONOTIS LEONURUS. Lion's Tail. T. South Africa. A quick-growing, rather tender, shrubby plant, growing 3 to 6 feet high, with hairy stems, soft foliage and queer, heavy-tufted spikes of orange-yellow flowers. 35 cts. each, \$3 for 10.

LIGUSTRUM. See page 24.

MALVAVISCUS ARBOREUS. Turk's Cap. T. A very attractive shrub, related to hibiscus, of vigorous growth, with light green leaves of large size. The scarlet flowers hang pendant, never fully opening and, while especially floriferous in the winter, it is in more or less constant

bloom throughout the year. 25 cts. each, \$2 for 10; larger, 35 cts. each, \$3 for 10; extra heavy, 50 cts. each, \$4.50 for 10; heavy field-grown stock, \$1 each.

MYRTUS COMMUNIS. Sweet Myrtle. H. South Europe. An erect shrub with fine foliage, very fragrant, and white flowers about an inch across. A splendid shrub for Florida, but should be in a sunny location. \$1 each, \$9 for 10.

PITOSPORUM tobira. See page 25.

PHYLLANTHUS nivosus purpureus. See page 23.

PSIDIUM cattleyanum. See page 25.

Other varieties of Guavas. See Fruit Department.

PUNICA GRANATUM. Pomegranate. H. A large-sized fruit with thin, tough rind. The flesh is a beautiful wine-color, crisp, sweet, and of exquisite flavor. Very attractive as a shrub, with flowers of reddish-orange effect. Strong plants, 50 cts. each, \$4.50 for 10. See, also, Fruit Department.

RHODOMYRTUS tomentosus. See page 24.

RUSSELLIA JUNcea. Coral Plant or Fountain Plant. T. Central America. A very attractive variation from the more common types of shrubs, to which it makes a pleasing contrast, with its wiry, rush-like, pendulous branches and tiny green leaves. The plant is almost continuously in bloom with quantities of small, tubular, coral-red flowers. 50 cts. each, \$4.50 for 10.

TABERNAEMONTANA CORONARIA, fl.-pl. Crape Jessamine or Rose Bay. T. India. A beautiful shrub, growing to 8 feet high, with dark, glossy green foliage, and large, pure white, double night-scented flowers produced at intervals through the year. Makes a splendid ornamental hedge, not defensive. 35 cts. each, \$3 for 10; heavier, 50 cts. each, \$4.50 for 10.

T. GRANDIFOLIA. Large-leaved Rose Bay. T. Tropics. A magnificent shrub, much larger and more vigorous than the former, though not quite so floriferous, with very handsome, large, glossy leaves of a beautiful shade of green. One of the best subjects we know for massing and as an intermediate background. Flowers of good size and substance, double, pure white. 35 cts. each, \$3 for 10; 50 cts. each, \$4.50 for 10; extra heavy, 75 cts. each.

TECOMA CAPENSIS. T. This is a true vine, yet by heading back from year to year it makes a valuable scarlet-orange-flowered shrub of handsome pinnate foliage. See Vines.

TETRAPANAX PAPYRIFERA. Rice Paper Plant. H. China. The large leaves are palmate, silvery on under side and exceedingly handsome. The plant grows upright like a palm, seldom branching, to a height of 8 to 12 feet, and in early winter throws out feathery spikes of bloom several feet in length. 35 cts. each, \$3 for 10.

THEA SINENSIS. Tea Plant. H. While this is best known as furnishing the tea leaves of commerce, it is a valuable hardy shrub of medium-sized, coarse foliage and compact, bushy growth, with white flowers an inch across. 35 cts. each, \$3 for 10.

THUNBERGIA erecta and *erecta alba*. See page 24.

THUYA ORIENTALIS. Arborvitæ. H. A coniferous evergreen, conical in form, with flat foliage, more or less strongly scented, and dark green in color. We do not recommend these for South Florida planting where there are so many splendid broad-leaved evergreen shrubs for securing tropical effects rather than the cold severity of this typically northern subject. Strong plants, 50 cts. and \$1 each.

T., ROSEDALE HYBRID. A very unique and handsome dwarf species of Arborvitæ, with dark, blue-green foliage, sometimes of a bronze cast. Of dense habit and conical shape. 35 cts. each, \$3 for 10.

TIBOUCHINA SEMIDECANDRA. Princess Flower. T. Brazil. Without a doubt one of the loveliest flowered shrubs for the Florida garden. While of rather straggling habit, it can be kept in good shape by pruning. It grows from 6 to 10 feet high, and has soft, velvety foliage of rich color, turning bronze before dropping. But it is the flower that is the "crowning beauty"—a wonderful, rich, royal purple flower, the most striking purple we know, and nearly 3 inches across. 50 cts. each, \$4.50 for 10; extra heavy boxed plants, \$1 each.



Chinese Hibiscus — Florida's Most Popular Flower



Royal Palm Nurseries. Oneco, Fla.

VACCINIUM VIRGATUM. Orchard Blueberry. H. This valuable fruiting subject makes a handsome shrub of spreading habit, with small foliage and blue-black berries of delicious quality. It should be grown only on moderately moist soil, slightly acid. See Fruit Department.

VIBURNUM ODORATISSIMUM. H. China. An evergreen shrub of great merit all over the Lower South, doing well even in South Florida, and attaining a height of 6 to 10 feet. The leaves are large and glossy green, of good color and substance, and the fragrant flowers come in late spring. We urge the use of this with others of its type for getting a permanent border planting of good texture, such as pittosporums, *Ligustrum lucidum* and *L. nepalense*, and the like. 50 cts. each, \$4.50 for 10; extra heavy plants, \$1 each.

WARNERIA AUGUSTA. (*Gardenia florida*.) Gardenia or Cape Jasmine. H. China. A splendid broad-leaved evergreen shrub, 6 to 8 feet high, with very dark green, glossy foliage and magnificent waxy-white flowers of good size and exceedingly fragrant. Strong plants, 35 cts., \$3 for 10; field-grown, 50 cts. each, \$4.50 for 10; extra heavy plants, 75 cts. each, \$7 for 10.

(c) Larger Mass Plantings

This, like all other classifications, is suggestive rather than intended as complete. As in the foregoing two groups, all these subjects are susceptible to special treatment, as pruning, which might place them in the medium, or even small-sized group—this final decision must rest with the planter. We merely make this suggestion as a help to those not ordinarily familiar with the subjects.

ACALYPHA HISPIDA. Chenille Plant. T. A striking subject with broad, green foliage and bright red flower-spikes resembling "chenille," about 2 feet long, pendent from the axils of the leaves. Fast-growing plant, attaining 10 feet in height; blooms throughout the year, beginning when very small, even as a pot subject. 35 cts.

ASSONIA PUNCTATA. Rose Bouquet. T. An open, somewhat straggling grower, with large, coarse leaves. The umbels, or flower-heads, consist of fewer flowers than *A. Wallichii* but larger and of a deeper shade of pink, coming in December and January. A splendid shrub for big, open borders in the South and the Tropics, attaining a height of 8 to 10 feet. 50 cts. each, \$4.50 for 10; extra heavy, 75 cts. each.

A. WALLICHII. Pink Ball. T. Madagascar. This makes a large shrub or small tree up to 30 feet high, with large, velvety cordate leaves and lovely pink flowers in large, compact, drooping "heads" in winter. A very showy plant when in bloom. An especially fine subject for the big open border where it can have plenty of room to develop. 50 cts. each, \$4.50 for 10; extra heavy, 75 cts. each; tubbed plants, \$2.50 each.

BIXA ORELLANA. Anatto. T. A large shrub of handsome appearance, with large, clean, heart-shaped leaves and numerous rosy-pink flowers, followed by bur-like pods. Produces the anatto dye of commerce. 50 cts. each, \$4.50 for 10.

CARYOPHYLLUS jambos. See Trees, page 16.

CASSIA BEARIANA. T. A splendid tall-growing shrub with compound foliage and in early summer producing a wealth of bright yellow flowers. 50 cts. each, \$4.50 for 10.

C. CORYMBOSA. Flowering Senna. T. Argentina. A medium-sized shrub with compound leaves. Half-hardy in Middle States. Very free-flowering, the flowers of a bright yellow color. 50 cts. each, \$4.50 for 10.

CESTRUM diurnum. Day Jessamine. T. See page 26.

CHRYSOBOLANUS icaco. See Fruit Department.

COCCOLOBIS uvifera. See Trees, page 17.

COFFEA ARABICA. Arabian or Commercial Coffee. T. A splendid decorative plant and valuable ornamental shrub for extreme South Florida and the Tropics. The broad, evergreen, dark, glossy green leaves resemble chestnut foliage and the shrubs, or small trees, are a profusion of elegant white blossoms in the spring. Later the coffee berries turn bright scarlet as they ripen, making a striking and beautiful picture. We have several of the best commercial strains in stock in the following kinds and prices: Murta, Erecta, and Padang, 50 cts.; Erecta and Maragogipe, 75 cts.

DATURA ARBOREA. Angel's Trumpet. T. Peru and Chile. A large shrub, tree-like in growth, attaining 10 to 12 feet. The large, pendulous, fragrant, white flowers are long, trumpet-shaped and open in the evening. Strong plants, 25 cts. each, \$2 for 10; heavier, 35 cts. each, \$3 for 10.

EUGENIA hookeriana. See page 24.

LAGERSTROEMIA FLOS-REGINÆ. Queen Crape Myrtle. T. India. This is, without a doubt, one of the most magnificent of our introductions. It is a tree reaching 50 to 60 feet in height, with magnificent foliage and gigantic panicles of mauve flowers, nodding on the ends of the strong, graceful shoots; usually seen as a shrub, blooming when small. The petals of the large, individual flowers are of the crepe-like texture of the common, hardier type of Crape Myrtle, only much larger. 35 cts. each, \$3 for 10.

L. INDICA. Crape Myrtle. H. China and India. Too much cannot be said in praise of this beautiful deciduous Indian shrub. The masses of flowers are profusely borne from spring until autumn, on small as well as large plants. A splendid plant for bedding out, even in the North where it gives perfect satisfaction. Grand for hedges, single specimens, or masses in general southern planting.

One-year plants, 25 cts. each, \$2 for 10, \$18 per 100; 3 to 4 ft., 50 cts. each, \$4 for 10, \$30 per 100; 5 to 7 ft., \$1 each, \$9 for 10, \$75 per 100.

Carmine. Sometimes catalogued as "Crimson." An exceedingly bright-colored flower. This variety was propagated from the choicest plant out of a large lot of Indian seedlings of our importation dating from 1886. The general favorite.

Pink. The old-fashioned sort so generally grown around southern homesteads.

Purple. A light purple flower, varying in shade with soil conditions. Blooms best in July and August.

White. (In small supply.) 50 cts.

MELALEUCA ERICIFOLIA. T. Australia. A large shrub, or sometimes small tree, with slender branches and delicate foliage, the leaves suggesting heather. Flowers are yellowish white. 50 cts. each, \$4.50 for 10.

MELASTOMA MOLKENBOERII. Lady's Favor. T. Java. A large shrub, 15 to 20 feet high, with attractive, deeply-veined leaves and beautiful mauve flowers. Very ornamental and adapted to extreme South Florida planting generally, but not doing well on high, dry, thirsty soil. Blooms when very small. 50 cts. each, \$4.50 for 10; extra-heavy boxed plants, \$1 each.

MICHELIA fuscata. See page 25.



The Glorious Royal-purple Tibouchina

The Tropical Grounds Book

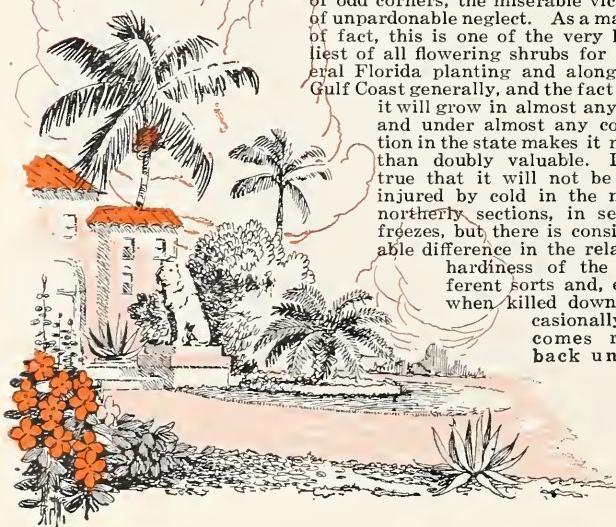


The Oleander—Or Rare and Exquisite Beauty

MONTANOA HIBISCIFOLIA. A tall, shrubby plant, suggesting a giant Sunflower in growth, with myriads of composite flowers in winter, white rays with light yellow center or "eye." 35 cts. each, \$3 for 10.

MYRICA cerifera. See page 25.

NERIUM OLEANDER. Oleander. H. So many people, we have found, objected to this subject because they have only been accustomed to seeing great, scraggly, big-caned, ugly specimens in deserted hedge-rows or odd corners, the miserable victims of unpardonable neglect. As a matter of fact, this is one of the very loveliest of all flowering shrubs for general Florida planting and along the Gulf Coast generally, and the fact that it will grow in almost any soil and under almost any condition in the state makes it more than doubly valuable. It is true that it will not be uninjured by cold in the more northerly sections, in severe freezes, but there is considerable difference in the relative hardiness of the different sorts and, even when killed down occasionally, it comes right back under



good culture and flowers freely as before. The following varieties are more hardy than the others: **CARNEUM**, **Frederick Guibert**, **DR. GOLFIN**, **Savort**, **Single White**, **De Brun**.

While not suited for sheared hedge-work, they make splendid informal hedges—a double hedge of white Oleander background with single scarlet Hibiscus foreground, or **CARNEUM** Oleander with pink Hibiscus foreground, and the like, make wonderfully effective enclosures for formal gardens, as screens for fences, and many other useful purposes. The flowers come in a wide range of color and in great profusion during the spring months, and some sorts bloom more or less throughout the summer. All shades make a splendid effect with the grey-green foliage which, even when there is no bloom, is attractive on properly kept specimens. The great trouble in the case of the Oleander—and indeed with most of our tropical shrubbery—is that the owner does not use the pruning shears! People who in the North would not think of neglecting their shrubs seem to take it for granted that under tropical conditions plants should grow and thrive and look well all the year round and under all conditions without any care. As a matter of fact they should receive as much attention here as elsewhere and under some conditions even more.

In the North the Oleander used to be widely grown as a tub plant; for long it was neglected, but again there is a revived interest being shown in the plant for this purpose and this should increase as the range of desirable colorings develops. Oleanders can be handled at any time of the year, though for the colder sections of the state we recommend spring planting, as with most tropical shrubs that are affected by low temperatures.

ATROPURPUREUM PLENUM. Double purplish crimson flower, with occasional narrow white stripes. The deepest red of any sort. 75 cts. each, \$7 for 10.

CALIFORNIA. Single, medium-sized flower, petals whitish, tinged pink, with bright yellow throat striped carmine. 35 cts. each, \$3 for 10; larger, 50 cts. each, \$4.50 for 10.

CARNEUM. Single, flesh-colored flower with pink lines in throat; very floriferous. 35 cts. each, \$3 for 10; larger, 50 cts., \$4.50 for 10.

DR. GOLFIN. Magnificent large single flower, bright cerise-red in color, faintly fragrant. Fine and floriferous. \$1 each, \$9 for 10.

MME. SAHUT. Semi-double; pale rose, striped white. 50 cts. each, \$4.50 for 10; larger, \$1 each.

MADONNA GRANDIFLORA. Pure white, double, of large size, very fragrant. The best of the double whites. 50 cts.; larger, \$1.

MRS. F. ROEDING. One of the very finest sorts, having heavy clusters of large, double, salmon-pink blossoms, freely produced. \$1.50.

SAVORT. Small, double, pale pink flower, very fine and floriferous. A strong, upright grower, hardy and desirable. 50 cts. and \$1.

SINGLE CREAM. Flowers rather small in size, but profuse. 35 cts. each, \$3 for 10; larger, 50 cts. and \$1.

SINGLE PINK. Shell-pink, scented flowers, borne in very large trusses. A grand variety. 35 cts. each, \$3 for 10; larger, 50 cts.

SINGLE WHITE. A very hardy sort; profuse bloomer, and altogether fine. The old reliable white variety. 50 cts.

SPLENDENS. The old-fashioned, double, rosy pink variety. Splendid large flowers in heavy trusses; sweet-scented. 35 cts. each, \$3 for 10; larger, 50 cts. and \$1.

SPLENDENS VARIEGATA. Same as preceding except that the leaves are marked with creamy-white variegations. 50 cts. each; heavier, \$1.

OXYANTHUS ISTHMIA. Needle Flower. T. Probably South America. One of the handsomest and most attractive large shrubs we know for South Florida, with its broad, dark glossy evergreen foliage, erect habit, and shapely white blossoms of most unusual shape—long tubular, only an eighth of an inch through yet 6 inches long, flaring out suddenly to an inch across, and of odor most attractive and intense. New and rare, flowering several times yearly. \$1.

SCHINUS TEREBINTHIFOLIUS. Brazilian Pepper. ST. This is not the pepper tree of California, making a large, scrambling shrub rather than a tree. Under proper treatment, especially in respect to pruning, it makes a strikingly attractive subject, with its coarsely compound leaves of dark green and great masses of scarlet berries in winter and spring. It is especially valuable as a large shrub in big, open borders and grows well under most average conditions. It will not thrive if exposed to salt spray and strong winds along the seashore. 25 cts. each, \$2 for 10; heavier, 50 cts. each, \$4.50 for 10.

STENOLOBIUM STANS. Yellow Elder. T. A quick-growing upright shrub of large size with compound leaves and terminal clusters of intensely fragrant yellow flowers blooming in the autumn. 35 cts. each, \$3 for 10.

S. STANS SAMBUCIFOLIA. T. Similar to the preceding except in its habit of blooming in the spring as well as in the autumn, making it valuable for our winter residents' grounds. 35 cts. each, \$3 for 10.



Foundations of Florida Homes Can Be Improved With Shrubbery—Note Effectiveness of This Planting Near Lake Wales

Group IV. Variegated-leaved Shrubs

As a rule we do not use much if any variegated foliage in mass plantings, unless something like *Ligustrum nepalense variegatum* which is so obscurely variegated as not to be conspicuously obtrusive. Strongly variegated plants are not, as a rule, natural in the sense of normal—they must be considered more or less in the light of curiosities and as such should be used with great care. They can be used at times to telling effect, but we certainly suggest the exercise of great caution, as many a fairly good planting has been spoiled with them—there is such a temptation to use them in tropical planting because of the “noise” they create. It should be remembered that good taste is better expressed in more quiet tones of greens, relying more on the flowers for the color relief. If you wish, use variegated foliage, but exercise care and discrimination.

ACALYPHA GODSEFFIANA. T. A dwarf-growing species, 3 to 4 feet high, with broad, bright green leaves margined yellow and more or less suffused with pink. An attractive subject of special value for mixing with fern borders with discretion, in patio plantings, and at other points. 25 cts. each, \$2 for 10; 35 cts. each, \$3 for 10.

A. marginata. Copper Leaf. T. The largest sort in the genus, growing in open ground up to 8 feet high; fast growing. Leaves green, margined with varying shades of red, pink, and cream. In cool weather is exceptionally gorgeous. 25 cts. each, \$2 for 10; larger, 35 cts. each, \$3 for 10; extra large, \$1 each.

A. MOSAICA. Fire Dragon. T. Mosaic-leaved. A most gorgeous plant, with curiously marked foliage showing all shades of green, yellow, and red. Very attractive planted among green-foliaged plants. A fine plant 4 to 6 feet high. 25 cts. each, \$2 for 10; larger, 35 cts. each, \$3 for 10; heavy, 50 cts. each.

A. TRICOLOR. Mandarin's Gown. T. Resembling the preceding, but with regular foliage, mostly of a rich red effect. A grand plant 6 to 8 feet high. 35 cts. each, \$3 for 10; heavy, 50 cts.

ARALIA BALFOURI. A new species, 3 to 4 feet high, with round leaflets beautifully variegated green, white, and cream, making a shrubby plant up to 10 feet in height. 35 cts. each, \$3 for 10; specimens, \$1.

ELAEAGNUS PUNGENS VARIEGATA. Golden-Leaved O'ester. H. A splendid evergreen shrub up to 6 feet high, with brown branches and bright green leaves beautifully blottedched with golden yellow. The fruit is quite desirable, somewhat resembling cranberries, and ripening in early spring. 50 cts.

PHYLLANTHUS NIVOSUS ROSEO-PICTUS. Snow Bush. T. Shrub with loose, rather wiry branches, somewhat zigzag. Leaves compound, mottled with white and pink. A charming plant for low hedges or borders, especially in quite dark surroundings where it serves to brighten up wonderfully. 35 cts. \$3 for 10; larger, 50 cts. each.

PHYLLOAUREA VARIEGATA. Crotons. T. Splendid shrubby plants with variegated foliage, both narrow and broad, requiring plenty of heat and moisture. No other genus of decorative plants can furnish such a

variety of color. In very formal plantings where it is desired to have formal masses of bedding plants but of more permanent character, nothing serves better to give a delirious riot of color than Crotons. They grow well in tubs and can be used in hotel lobbies and similar places to give a bright, tropical effect to good advantage, requiring only normal care for good results. Mixed plants, not labeled, small, and different, 25 cts. each, \$2 for 10; better, 35 cts. each, \$3 for 10; larger, 50 cts. each, \$4.50 for 10.

Following is a list of the choicer varieties and in addition we have a number of sorts in great variety of form and color not sufficiently distinctive to merit special descriptions. These we are selling in mixed collections, as noted heretofore, and can be supplied according to special preferences as wide- or narrow-leaved, lighter green and yellow tones or darker green and red tones predominating, and like:

Amabile. Broad-leaved, of slow growth, very highly colored, showing pink, purple, green, and yellow. 35 cts.

Andreanum. Broad-leaved; exceedingly rich yellow leaves. “Canned sunshine,” someone said of it. 35 cts.

Aureo-maculatum. Very small and narrow foliage; green, spotted yellow. 35 and 50 cts.

General Paget. Leaves extremely broad, green and yellow; a superb show variety. 50 cts.

Irregularis. Dark shining green with a few golden blotches and golden-yellow midrib. 35 cts. and 50 cts. each.

Orvillea. Beautiful broad leaves, green, barred and spotted with deep yellow. Splendid. 35 and 50 cts.

Picturatum. Narrow, long leaves, green, carmine, yellow, orange, etc. Very rich colored. 35 cts., 50 cts., and \$1.

Robert Craig. Glowing orange-red to dark red and green, 50 cts.

Veitchii. Broad-leaved, green, pink, and crimson. 35 cts.

Weismanni. Leaves rather narrow; green barred and blotched yellow, with pink or red stems. 35 and 50 cts.

PITTOSPORUM TOBIRA VARIEGATUM. H. A rare form of the type (see page 25) but not so strong a grower, being more dwarf, with lighter green foliage variegated with creamy white. Valuable in certain situations to touch up a dark place or bring out a dark planting. 50 cts. each, \$4.50 for 10; larger, \$1.50.

The Tropical Grounds Book

Group V. The Rose

No flower today is more popular in the South than the Rose where, with proper cultural attention, blooms of finest quality can be produced the year round. However, so many failures with Roses have been traceable directly to lack of knowledge of the requirements of that plant that we urge all planters to note the following suggestions carefully and be guided accordingly:

First.—Rose bushes must be planted deep. The point of union where budded or grafted should be at least 2 or 3 inches below the general soil level. This keeps the roots under more even moisture conditions and serves to discourage sprouting from below the graft or bud. Any shoots that do come up from the old stock should be removed at once. Second.—The soil should be made as rich as possible and deep, and fertilizing should be done several times a year. Roses should be grown in beds, just as a vegetable garden would be handled; don't plant them out as single specimens over the lawn. Enrich the soil with rotted manure, preferably, or other organic material, and if possible make applications of liquid manure during the main growing season. Bone meal is also especially valuable for Roses and other flowering subjects. Third.—See that the plants never want for moisture at the roots; keep the soil moist to a depth of 2 feet at all times, if possible. Enough pruning of the Climbers and Teas should be done to keep them free of old wood; more than this, if necessary, should be done about October in order to encourage long flowering shoots. Transplant Roses in November, December or January.

PRICE, of fine 2-year-old, grafted stock, except where otherwise noted, 75 cts. each, \$7 for 10.

Abbreviations: Ben., Bengal; Bour., Bourbon; Brac., Bracteata; H.P., Hybrid Perpetual; H.T., Hybrid Tea; Læv., Lævigata; Nois., Noisette; T., Tea.

BUSH ROSES

White

BRIDE. T. White, of most beautiful form.

FRAU KARL DRUSCHKI (White American Beauty). H.P. A splendid pure white Rose of very large size, blooming usually singly on strong stems; in cutting these cut almost to the ground to induce strong flowering shoots.

KAISERIN AUGUSTE VICTORIA. T. A free and regular bloomer of large size, pure white on long stems.

SNOWFLAKE. T. A favorite creamy white. Vigorous grower of spreading habit.

WHITE MAMAN COCHET. T. A pure white form of this splendid Rose.

Yellow to Creamy Pink

ALEXANDER HILL GRAY. T. (Yellow Maman Cochet). Flowers clear, deep yellow, large, and of perfect formation. Strong, upright growth.

ETOILE DE LYON. T. A lovely rose with well-formed buds and large, double yellow flowers.

MARIE VAN HOUTTE. T. Pale yellow, tinged rose. Very vigorous. Flowers large, with pointed buds.

MME. CECIL BERTHOD. T. Deep, golden yellow flower, beautiful in bud and open bloom. Vigorous grower.

MME. JENNY GUILLEMOT. H.T. (Yellow Killarney.) Long pointed buds, the flower canary-yellow with dark golden shadings when open.

MRS. DUDLEY CROSS. H.T. Beautifully formed buds opening into full double blooms, creamy white with petals carmine at edge and rosy yellow at base. Profuse bloomer on strong, stiff stems with heavy foliage.

SUNBURST. H.T. Grand orange-yellow buds opening to full yellow. One of the leading yellows.

WILLIAM R. SMITH. T. Magnificent grower, producing full, well-formed flowers of soft pink and cream tints.

Pink

DUCHESSE DE BRABANT. T. Shell-pink shaded carmine. A splendid, free-flowering, vigorous sort.

KILLARNEY. H.T. Semi-double; glowing pink; very fine in bud.

MME. LAMBARD. T. Buds rich deep pink, the open flower changing to light shades. Very vigorous.

MINNIE FRANCIS. T. Might be called an improved Bon Silene. Very fine deep rose-pink; vigorous; splendid Rose for Florida.

MRS. B. R. CANT. T. Attractive colorings of deep rose on outer petals, inner petals silvery rose, sometimes buff at base; fragrant. Heavy foliage and strong stems.

PAUL NEYRON. H.P. Enormous blooms, deep rose-pink, full double flowers on heavy stems; spicy fragrance.

PINK MAMAN COCHET. T. A choice Rose; style like Bride; pink, with suffusion of yellow at base of petals.

PINK RADIANCE. T. Upright, medium grower with brilliant, rosy pink flowers. One of the best of the new varieties.

Red

E. E. MARLITT. Bour. Vigorous grower; flowers bright crimson, fragrant.

ETOILE DE FRANCE. H.T. Lovely velvety red-crimson, delightfully fragrant and fine in bud and flower. Profuse bloomer and vigorous grower.

FREIHERR VON MARSCHALL. T. A strong grower with fine foliage and long and well-formed buds, dark carmine-red when open. Very free flowering.

J. B. CLARK. H.P. Strong grower with well-formed, intense flaming scarlet blooms on stiff stems.

LOUIS PHILIPPE. Ben. A good, thrifty Rose. Crimson blooms on long stems.

RED RADIANCE. T. Finest of all red roses. Identical with Pink Radiance in form and perfume but of deep, rich red color. Long stems.



Tea Roses



Royal Palm Nurseries, Oneco, Fla.

Climbing Roses

With few exceptions, the Climbers may be grown as bush Roses by severe or careful pruning.

White

CHEROKEE. Læv. A strong native climber; single white flowers usually appearing in January through the spring. 35 cts. each, \$3 for 10.

CLIMBING DEVONIENSIS. Cl. T. A strong climber with extra-large flowers, white, delicately shaded pale pink.

ESTELLE PRADEL. Cl. Nois. A lovely pure white Rose of medium size, fragrant.

MACARTNEY. Brac. A rampant climbing Rose with small evergreen leaves; flowers large, single, pure white. Makes an impenetrable hedge. 1-yr., 15 cts. each, \$1 for 10; 2-yr., 35 cts. each, \$3 for 10.

Pink

ANEMONE. Læv. The Pink Cherokee, one of our introductions from England a few years ago. Flowers a beautiful shade of light pink, with a satiny sheen.

CLIMBING BRIDESMAID. Cl. T. Beautiful pink, with yellow shading in center.

CLIMBING CAROLINE TESTOUT. Cl. T. Vigorous, producing abundant large blooms of most beautiful delicate pink coloring.

CLIMBING PAUL NEYRON. Cl. H.P. A good climbing form of this popular variety.

Red

CLIMBING HELEN GOULD. Cl. H.T. A fine Rose of a rose-crimson color; very double.

CLIMBING AMERICAN BEAUTY. H.N. Same size, rich coloring, and fragrance as American Beauty. Vigorous climber, good foliage, and prolific.

CLIMBING ETOILE DE FRANCE. Cl. H.T. A vigorous climber with blooms identical with the bush form, which see.

JAMES SPRUNT. Cl. Ben. An old-fashioned deep red Rose; very double; a good climber.

RAMONA. Læv. The new Red Cherokee, a magnificent production of South California. This is a sport from Anemone, of the same type, but with splendid carmine-crimson flowers.

Yellow

CLIMBING PERLE DES JARDINS. Cl. T. Probably the best yellow climbing Rose, supplanting Marechal Niel in its better form and color, holding flowers up on stiffer stems.

MARECHAL NIEL. Cl. Nois. The great favorite in the South. Rich yellow.

REVE D'OR. Cl. Nois. Buff-yellow and saffron. A grand climber of vigorous habit.

WILLIAM ALLEN RICHARDSON. Cl. N. Showy and distinctive very deep orange-yellow bloom of medium size. Good climber.

Special Offers on Roses

THE following selections of Roses have been most carefully considered with a view to being of the greatest possible assistance to our customers, and you may rest assured that they represent the best adapted varieties for the lower South, particularly Florida. Not only are these studied assortments a convenience but they represent a real economy also, and you may safely rely on their adaptability under ordinary conditions.

Novelty Collection

Five heavy two-year plants, our selection, in the newer varieties, such as Columbia, Countess of Gosford, Mrs. Chas. Bell, Pharisæer, Geo. Ahrends, Gen. Janssen, Mme. Caroline Testout, Laurent Carle, all varieties of national reputation. These are plants grafted on adapted stocks, not just stock brought in to sell and soon die! And they are not "freaks," but are kinds which have been thoroughly tested and found suited to our conditions. We are not offering them except in this collection and only one collection will be sold to a customer. Order yours now. The price is \$5 for the collection.

Florist's Dozen

Twelve plants in the heavy two-year grade in varieties which will always give you fine cut flowers for the table: 3 Pink Radiance, 3 Red Radiance, 2 Kaiserin Auguste Victoria, 2 Alexander Hill Gray, 1 Etoile de France, 1 E. E. Marlitt. The price is \$8 for the collection.

Favorite Collection

A dozen and a half of the old-time favorites that have demonstrated their capacity to grow vigorously and bloom abundantly under all ordinary conditions: 2 each of Marie Van Houtte, Duchesse de Brabant, Mme. Lambard, Louis Philippe, Mme. Cecil Berthod; 1 each of White Cochet, Minnie Francis, Pink Cochet, Etoile de Lyon, Cl. Devonensis, Cl. Bridesmaid, Marechal Niel, Etoile de France. The price for all is \$11.

Rose Garden Collection

This is a very carefully selected collection of the best sorts such as will give you the groundwork of a rose garden to which you can, of course, add from year to year. 40 strong plants in our usual heavy, two-year-old grade. The price of this splendid collection is \$25.

Tall-growing sorts for the back or inside rows: 3 Mme. Lambard, 2 each of Kaiserin Auguste Victoria, Duchesse de Brabant, Minnie Francis, E. E. Marlitt, J. B. Clark, Louis Philippe, and 1 each of F. K. Druschnik, Paul Neyron, Freiherr von Marschall.

Shorter sorts for front or outside rows: 1 each of Bride, White Cochet, Alex. Hill Gray, Etoile de Lyon, Mme. Cecil Berthod, Mrs. Dudley Cross, Mrs. B. R. Cant, Pink Cochet, Sunburst, Etoile de France, and 2 each of Marie Van Houtte, Wm. R. Smith, Pink Radiance, Red Radiance.

Climbers for trellises, pergolas, or fan standards: 1 each of Cl. Devonensis, Cl. Bridesmaid, Cl. Helen Gould, Cl. Perle des Jardins.

Potted Roses

There has been such a demand for roses for planting out of their regular season that we are offering this year strong, field-grown plants, well established in large pots, for shipment April 1st to November 1st, at \$1.50 each, \$12.50 for ten.

Our list of potted plants is limited to the following varieties:

ALEXANDER HILL GRAY.

ETOILE DE FRANCE.

KAI SERIN AUGUSTE VICTORIA.

MME. LAM BARD.

MARECHAL NIEL.

PINK MAMAN COCHET.

PINK RADIANCE.

RED RADIANCE.

WHITE MAMAN COCHET.

WILLIAM R. SMITH.

Standard Roses

Garden lovers will be interested in our standard roses. They are grown as they should be grown—not budded at the tops of long shoots of the non-bearing stock plant, but grafted and trained in standard shape, thus obviating the possibility of the trunk scalding or of worthless shoots coming from the trunk.

Low standards, 2 to 3 ft., \$2 each
Standards, 3 to 3½ ft., \$2.50 each

FRAU KARL DRUSCHKI.

LOUIS PHILIPPE.

RED RADIANCE.

RADIANCE.





A Miami Home Which, While Not Skillfully Planted, Yet Suggests the Luxuriance of the Tropics in Architecture and Plant Material

Vines and Creepers

MORE AND MORE are planters coming to understand and appreciate the value of "ground-covers" in many situations, either where a good sod is unobtainable or where vines covering the ground would be more attractive. Vines for this purpose are much used in the North, but the subjects that serve well there do not thrive in Florida under our tropical conditions. Following is a selected list of subjects of special interest and value for covering banks or partially shady ground or other situation where the moisture—either natural or artificial—is sufficient to keep them in a good growing condition until well established: Allamandas both, Bignonias both, *Euonymus radicans acutus*, *Ficus pumila* and *F. villosa*, *Gelsemium*, *Nintooa*, *Pyrostegia*, *Smilax*, *Trachelospermum*, Purple Trailing Lantana, *Zebrina pendula*.

Trees, Palms and shrubbery of course come first, as they form the framework of the garden picture, but more finish will be needed later and vines are very valuable for this purpose. On the home they serve to soften the sharp angles and lines of the building and by the very nature of their growth they become identified with the architecture of the structure itself, making it a more normal and intimate feature of the landscape. They help to make unsightly but usually necessary fences more tolerable, hiding their artificial and abnormal characteristics. By erecting a framework on which they can climb, they soon form a quick and efficient screen for unsightly views or buildings, and on pergolas, arbors, and the like, they are naturally invaluable.

In planting they should be given the same consideration in respect to preparation of the ground and fertilizing as would be accorded any shrub. They should not be planted in the drip of the eaves, as with our heavy rains and light soils, the earth is soon washed away from the roots, especially here in Florida.

A very suitable planting arrangement, where one wants the vines to quickly shade a window, is to erect a double inverted U-support of small pipe, elbows used at the turns, one "U" close to the house wall and window, the other farther out, and wire stretched between on which the vines can be trained. The ends of the pipe should be sunk in small concrete blocks to steady the supports.

Special Notice. Plants in this Department may be transplanted at any time of the year.

Those marked T are tropical or subtropical and are suited to greenhouse, living-room, warm offices, for planting out in the Tropics and the extreme lower South, where slight protection may be necessary. Those marked H are more hardy and suited generally to Florida and Gulf Coast planting. All need a wire or other support except Bignonias, Euonymus, Ficus, Hedera, Pyrostegia and Tecoma; these cling to any solid support and are ideal for covering brick, stone, or cement-finished walls, lending a charming air to homes, churches, schools, or any buildings, robbing them of the forbidding, prison-like aspect of the usual modern structure.

For fragrance try *Deguelia*, *Nintooa*, *Pereskia*, *Gelsemium*, *Jasminum*, *Trachelospermum*, *Cereus*.

The following vines are in bloom in the November to March period: *Bougainvillea*, *Bignonia*, *Gelsemium*, *Tecoma*, *Jasminum*, *Pyrostegia*, *Cereus*, *Ipomoea*, *Trachelospermum*.

For coast planting try *Cryptostegia*, *Passiflora*, *Trachelospermum*.



Group I. Vines Which Stick to Any Good Surface Unaided

This class of vines will adhere to wood, brick, cement and the like—though we do not recommend them for wood that needs painting from time to time, for obvious reasons.

BIGNONIA UNGUIS-CATI. Cat's Claw Vine. H. An elegant, very fast-growing vine, though of delicate appearance, exceptionally fine for covering stone or brick houses of darker shade or white, but does not harmonize well with most shades of yellow brick. The splendid, bright golden yellow flowers are about 2 inches across and borne in profusion in early spring. 15 cts. each, \$1 for 10.

B. VENUSTA. See Pyrostegia, in next column.

EUONYMUS RADICANS ACUTUS. H. A splendid new introduction with small foliage and of vigorous growth when established. Much better than the old E. radicans type. It does well in a variety of soils and clings to any support unaided or will make a good ground-cover. 35 cts. each, \$3 for 10.

FICUS PUMILA (F. repens). Creeping or Climbing Fig. H. Orient. This is the very finest subject now grown in Florida for covering stucco, brick, or other masonry. The leaves are small, dark gray-green, and with the slender woody growth stick very flat and close to the surface, making a network or tracery of green over the entire surface. When first planted it should receive special care and attention, as the small plants are easily washed out when watering against the wall. We suggest placing three short pieces of wood around it, partly sunk in the ground, to make a little box-like effect, to prevent such washing. Once established, after a few months, it makes a very vigorous growth and soon covers a considerable area. When grown on walls it will stand a great deal of frost. Be sure to remove all soil having cement from building mixed with it, before planting. 35 cts. each, \$3 for 10.

F. VILLOSA. H. A stronger grower, with larger leaves than the preceding species, and perhaps not so hardy. 35 cts.

HEDERA HELIX. English Ivy. H. Europe to Asia. Ornamental, woody, root-climbing vine, valuable for its handsome, large, evergreen foliage. It clings well to brick or masonry, but in Florida should be planted only on the north or shady walls of buildings. 35 cts. each, \$3 for 10.

PYROSTEGIA VENUSTA. (*Bignonia venusta.*) Flame Vine. T. Brazil. Without a doubt this vine attracts more attention in Florida than any other, even than the bougainvilleas. In many sections of South Florida it covers huge pine trees, fences, buildings and the like, and when in bloom in winter appears to be a mass of flames. The vine is exceptionally vigorous, reaching 80 feet or more, and clinging tight to any support unaided after securing a little foothold. The foliage is a good green and the orange-red tubular flowers are borne in dense clusters and greatest profusion in winter and oftentimes are followed by a lighter crop in May or June. 35 cts. each, \$3 for 10; heavier, 50 cts. each, \$4.50 for 10; extra large, in light boxes, \$1.

TECOMA RADICANS. Trumpet Creeper. H. This hardy vine of the North is found growing well over Florida. While a comparatively slow grower, it succeeds exceptionally well under cultivation. The foliage is compound—and deciduous—and the dark orange-red flowers, 2 inches across, are borne in profuse clusters. It does especially well when planted near trees, over which it scrambles easily. When in leaf and flower it is attractive and when without foliage, it is not conspicuous. 25 cts. each, \$2 for 10.

Group II. Vines That Are Valuable for Use on Palmetto and Other Tree Trunks

It frequently happens that there are not sufficient opportunities for the use of vines on the buildings of a property, in which case "scrub oaks" and other poorer specimens of trees, as well as tall Palmetto trunks, can be utilized to very good advantage. In fact, not only can one get the benefit of the vines, but the trees are invested with a charm and character that they would frequently otherwise lack. The following list is suggested as especially adapted to this purpose, but they will all require a little start in the nature of a wire or stout string fastened to a stake driven in the ground and also to the tree trunk. Once started the vines will take care of themselves. All in Group I can be utilized, though not so desirable as the following:

BOUGAINVILLEAS

To those still unfamiliar with the wonderful new varieties of this glorious subject the name "Bougainvillea" brings only to mind the old-fashioned magenta-purple *B. glabra sanderiana*. But there are some new colors now that are so wonderful in tone and value and so very distinctive that we urge every planter to carefully consider the following list. Needless to say they should not be planted together—one should decide on the color effect wanted at any given point and plant only to the variety that will give it most successfully.



Ficus Pumila — Note the Delicate Tracery of Green Over the Second-Story Windows



The Tropical Grounds Book

In order to insure flower-growth in winter, prune your Bougainvilleas back heavily in the late spring or early summer and encourage the growth of new, vigorous wood by liberal applications of fertilizers, especially manures. If troubled with the worms which strip the vines of leaves, apply arsenical poisons such as Paris Green or Arsenate of Lead. One of the simplest ways where a spray gun is not available is to mix one part of Paris Green to about fifty parts of flour or slaked lime and dust this on the plants when wet through a cheesecloth sack tied to the end of a bamboo pole.

B. BRAZILIENSIS. T. Brazil. Brilliant, light purple; flowers in late spring most heavily. For general description, see *B. glabra sanderiana*. \$1.50 each. Extra-heavy plants in boxes, \$2.50 each.

B., CRIMSON LAKE. T. By most people who know it, this is considered the finest coloring of all—a rich, glowing crimson, later overcast with purple shades, altogether beyond adequate description. It is especially useful for planting at pergolas and for running up into small trees, and the like. The brilliant red color of this, mingling with the gray-green foliage of the Turkey Oak of the high, sandy ridges of Central Florida, is particularly attractive. \$1.50 each. Extra-heavy box-grown, \$2.50 each.

B. GLABRA SANDERIANA. Paper Flower. T. Brazil. A very showy-flowered woody climber covered with great masses of magenta-purple "flowers" (in reality the bracts, with tiny yellow flowers in center) which are borne in profusion during the greater part of the year, more especially during the winter and spring months. It may be handled either as a shrub, in which form it is particularly effective as a low hedge running along the top of a cement retaining wall, or as a vine on pergolas, small trees, and the like, or it may be trained as a large shrub in standard form by proper pruning. It has frequently been used with telling effect to cover old or unsightly fences. 35 cts. each, \$3 for 10; larger, 50 cts. each, \$4 for 10; extra large, \$1.50; standards, 3 to 4 ft., \$2.50.

B. ROSA CATALINA. Many prefer this variety because of the rich rose-red cast to the flower-bracts which, in obscured light, as a shaded glass-house, becomes a rich, rosy pink and suggests a huge bouquet of pink roses. Visitors all exclaim over this variety more than any other. Though difficult to propagate, it is a strong grower. Boxed plants, \$5 each.

B. SPECTABILIS. T. Brazil. This variety has "flowers" of much greater size and deeper purple—really finer than the preceding. It does not bloom so young, however, and flowers in spring only. \$1; extra-heavy plants in boxes, \$2.

B. SPECTABILIS LATERITIA. T. True red is the nearest description of this color that could be given—not scarlet, nor deep pink but real red. In shade it assumes a somewhat lighter shade, of course. The bracts are large and like all of this genus are borne in greatest profusion, making veritable bouquets of bloom during the winter blossoming season. \$2.50 each; extra-heavy box plants, \$4.

CEREUS BOECKMANNI. Night-Blooming

Cereus. T. A desirable white variety, 5 to 6 inches across, that will stand freezing temperatures. 50 cts.

C. TRIANGULARIS. Strawberry Pear. T. This is also a Night-blooming Cereus, resembling the preceding, and sometimes called Strawberry Pear from the handsome fruit. Stems three-sided. Flowers very fragrant, from 6 to 8 inches across. 35 cts.

GELSEMIUM

SEMPERVIRENS. Carolina Yellow Jessamine. H. Southeast United States. Well-known woody twiner bearing glossy, evergreen foliage and a profusion of pure yellow, bell-shaped, very fragrant flowers in winter. Very desirable for covering fences and also as a ground-cover. 25 cts. each, \$2 for 10; extra-strong, 35 cts. each, \$3 for 10.

NINTOOA JAPONICA. Hall's Japan

Honeysuckle. H. Japan. A very strong grower, with handsome foliage. Fine for covering rocks, the ground, or for trellises.

The flowers are pure white, changing to creamy yellow, fragrant and are almost everblooming. We have found it particularly interesting when used to scramble up the smooth trunks of palmetto trees, serving to soften the lines and stiffness characteristic of the single specimens on lawns. 35 cts. each, \$3 for 10; extra heavy, 50 cts.

PITHECOCTENIUM CLEMATIDIUM. Monkey's Comb. H. South America. Attractive climbing plant with rather delicate foliage and pure white tubular flowers, in clusters. Blooms in spring. 35 cts. each, \$3 for 10.

POTHOS AUREUS. Hunter's Robe. T. An interesting climbing aroid, especially useful for planting on tree trunks, attaching itself by aerial roots. The leaves are variegated light green and yellow. 50 cts.

PYROSTEGIA venusta. See page 35.

THUNBERGIA GRANDIFLORA. Sky Flower. T. India. This vine has increased more rapidly in popularity in Florida than any other subject—and once you see it you will understand why. It is a very rapid grower, making a showing quicker than any other woody vine we know, under normal conditions, with beautiful, large, soft, pointed leaves and a succession of splendid, pale lavender-blue flowers throughout the year. The individual blossoms are fully 3 inches across, resembling a bignonia in form, and hang pendent in clusters of several each. This is one you will love on first sight, and no matter where you live in Peninsular Florida you should have one if you can make suitable place for it—even if frozen down, it comes right up and is soon blooming freely again. 50 cts. each, \$4.50 for 10; larger, \$1 each.

TRACHELCSPERMUM JASMINOIDES. Confederate Jessamine. H.

China. If you have a palmetto tree out on your lawn—especially one having the boots of the leaves still on the trunk—plant one of these vines against it and see how well you like it in a year or two. You won't take it out for anything! Once given a little start it climbs readily enough, and vigorously. The foliage is small, the leaves thick and leathery and dark green. The flowers, borne only in the spring, are produced in uncountable numbers, pure white and intensely fragrant. 50 cts. each, \$4.50 for 10.

T. JASMINOIDES VARIEGATUM. H. Leaves variegated with white and sometimes with pink. 75 cts.



One of the New Rare-colored Bougainvilleas — No Home in South Florida is Complete Without One of These Splendid Subjects in Some Color

Royal Palm Nurseries, Oneco, Fla.



Group III. Vines for Porches, Trellises, Etc.

All of Group II can be used as well as the following:

ALLAMANDA HENDERSONII. Golden Trumpet. T. One of the most gorgeous tropical plants grown in Florida; may be trained either as a vine or shrub, and will grow well up into the southern edge of our Gulf States, as the loss of top by frost is very quickly remedied by a few weeks of spring weather. Glossy green, broad leaves; flowers constantly produced 4 to 5 inches across, pure golden yellow. Makes a charming combination with strong blue tones. 35 cts. each, \$3 for 10; larger, 50 cts. each, \$4.50 for 10.

A. WILLIAMSII. Canary Flower. T. This is similar to preceding species except in size of flower, which is only about 3 inches across, and sometimes a trifle fragrant. Exceedingly floriferous. 50 cts. each, \$4.50 for 10.

ANTIGONON LEPTOPUS. Chain of Love Vine. "Pink Vine." T. Mexico. Plant one of these against that ugly fence corner and see the bees come tumbling over themselves to compete for the nectar contained in the glowing pink flowers! The vine is a vigorous grower, with beautiful heart-shaped leaves and large, graceful racemes of flowers during most of the year in Florida. Not attractive during coolest weather. 15 cts. each, \$1.25 for 10.

ASPARAGUS FALCATUS. Sickle Thorn. ST. A very large new climbing plant, with dark green, coarse leaves and masses of scented white flowers at intervals. Shoots attain a length of 20 to 25 feet. Fine outdoors in Florida. 50 cts. each, \$4.50 for 10; larger, \$1 each.

A. PLUMOSUS. Lace Asparagus. (Erroneously called "Asparagus Fern.") ST. A very fine, fern-leaved, climbing plant, particularly adapted for bouquets and all cut-flower work, etc. Lasts for days without water. May be grown outdoors in Florida and warm regions. A fine pot-plant for any climate. 15 cts. each, \$1 for 10; heavier, 25 cts. each, \$2 for 10. Extra heavy, 35 cts.

BEAUMONTIA GRANDIFLORA. Herald's Trumpet. T. India. A strong-growing, woody vine, with heavy foliage and clusters of immense trumpet-shaped white flowers, resembling Easter lilies, only larger, coming in early spring. A magnificent subject for South Florida planting, especially on massive pergolas. \$1.

BIGNONIA SPECIOSA. Love Charm. H. South America. A magnificent vine, with glossy, dark green leaves and great clusters of large, purplish, trumpet-shaped flowers blooming here from March to May. A fast grower and free bloomer. 35 cts. each, \$3 for 10.

B. VENUSTA. See Pyrostegia, page 35.

CLERODENDRUM THOMSONÆ. Bag Flower. (C. baicali.) T. West Africa. Quick-growing; of unusual merit; flowers bright scarlet, enclosed partly in a bag-like calyx of pure white. The flowers last for many weeks and are produced in quantity. 35 cts. each, \$3 for 10; larger, 50 cts. each.

CRYPTOSTEGIA MADAGASCARIENSIS. Rubber Vine. T. Madagascari. (Sometimes erroneously called "Purple Allamanda.") A strong-growing, woody vine that with a little support will make a shrub-like growth. Leaves glossy green and showy, flowers are pinkish, 2½ to 3 inches across. 50 cts. each, \$4.50 for 10.

DEGUELIA TIMORENSIS. Malay Jewel Vine. T. A very vigorous vine from Timor, bearing long spires of pure white, sweet-scented flowers in enormous profusion in summer and autumn. 25 cts.

DIOSCOREA SP. Air Potato. T. Rampant grower, suitable for porches, or where a quick cover is desired. Leaves large, glossy green, strongly nerved. 25 cts. each, \$2 for 10.

GLORIOSA SUPERBA. Climbing Lily. H. Africa and Asia. A gorgeous, lily-like plant climbing from 6 to 10 feet high, and bearing a profusion of scarlet and yellow flowers during the summer and fall. Is a first-class ornament for a screen or to grow over shrubs or palm trunks, but prefers full sun exposure. Tubers available only in winter and early spring. 25 cts. each, \$2 for 10.

IPOMOEA HORSFALLIAE BRIGGSIL. Brazilian Glory. T. A wonderful vine with an abundance of deeply cut, waxy, dark green leaves. Its greatest period of bloom is December, but for weeks in advance the showy, deep carmine-crimson flower buds are swelling. A second though lighter crop of bloom comes in June. Rare and exceedingly desirable. 50 cts.; heavy box plants, \$1.

JASMINUM GRACILLIMUM. Star Jasmine. T. Closely resembles J. pubescens, except that flowers have narrower and more star-shaped petals. 35 cts. each, \$3 for 10; larger, 50 cts. each, \$4.50 for 10.

J. PUBESCENS. Downy Jasmine. T. A shrubby vine, more often used as a shrub than as a vine here in Florida; attractive foliage and habit of growth, with a profusion of white flowers borne throughout the year in crops. One of our most desirable subjects. Strong stock, 35 cts. each, \$3 for 10.

J. SAMBAC. Arabian Jasmine. India. A climbing shrub much cultivated in the Tropics. The following varieties are improved forms of very intense fragrance:

J. SAMBAC. Grand Duke. T. A very double-flowered Jessamine. The blooms are frequently 2½ inches wide and intensely fragrant. Foliage is dark green and shining. 50 cts. each, \$4.50 for 10.

J. SAMBAC. Maid of Orleans. T. Semi-double flowers, 1¼ to 2 inches wide, very fragrant; constantly in flower. Fine, 50 cts. each, \$4.50 for 10.

LANTANA Purple Trailing. T. This fine-foliated, trailing plant makes a most excellent ground-cover for sloping banks and like situations. The mauve-purple flowers are in roundish umbels, very numerous and borne at all seasons of the year. 25 cts. each, \$2 for 10.

PASSIFLORA edulis and **P. laurifolia.** See page 50.

PERESKIA ACULEATA. Lemon Vine, or Barbados Gooseberry. T. A climbing cactus with true leaves and producing edible fruit. Stems fleshy, with spines at the base of each leaf. Very fast grower; much used as a stock upon which to graft epiphyllums and other low-growing cacti. Flowers borne periodically in immense numbers; 1½ inches wide, of a creamy white with a green tinge. 25 cts. each, \$2 for 10.

PETREA VOLUBILIS. Queen's Wreath. T. American Tropics. The rough, harsh leaves are evergreen, of medium size and produced on twining woody growth. The flowers are borne in profusion in long-branched panicles of exquisite shades of purplish-blue, the calyx grayish-blue, with the corolla almost royal purple. The vine is in bloom throughout the warmer months, though at its best in spring and early summer. Strong plants from layers, \$1.

PORANA PANICULATA. Snow Creeper. T. India. A strong, shrubby climber, every branchlet terminating with a panicle of innumerable small, white flowers. \$1.

QUISQUALIS INDICA. Rangoon Creeper. T. Malaya. A large twining shrub of rapid growth, having a profusion of star-shaped flowers in bunches on long stems. The flowers are white in the morning, changing to red before night; have a rich, fruity fragrance. One of the finest subjects we know for the South Florida porch. Strong vines, \$1 each.

SMILAX Greenbrier or Bamboo Creeper. H. Native. Don't confound the name with the greenhouse vine, Myrsiphyllum. This hardy plant is prickly and bears quantities of black or green berries; the cut masses of vines are used in large decorations, being shipped from the South largely. Most interesting as a climber over low oak trees, and the like, where it will make a splendid mass of bright green foliage. Strong roots, 25 cts. each, \$2 for 10.

SOLANUM SEAFORTHIANUM. T. West Indies. A medium-sized, delicate vine with compound leaves and bunches of pale lavender-blue flowers, which are followed by scarlet berries greatly liked by birds. Called in Mexico "Tomatillo." Especially attractive when grown on garden or other screen lattice work. 35 cts. each, \$3 for 10.

S. WENDLANDII. Paradise Flower. T. Costa Rica. A very large vine with coarse pinnate leaves, but most elegant, lilac-blue, sometimes sky-blue, flowers borne in great clusters 10 to 15 inches across, and lasting well. This is one of the quickest growing vines we have and what is of more especial value it does exceptionally well on the poorest lands, growing with greatest vigor on the seashore on newly filled-in land that is little better than plain beach sand. We recommend it highly for any place where it is sufficiently hardy. 50 cts. each, \$4.50 for 10; extra heavy, in boxes, \$1 each.

TECOMA CAPENSIS. Cape Honeysuckle. T. South Africa. A strong-growing shrubby climber, with elegant pinnate leaves and producing constantly clusters of bright scarlet-orange, showy flowers. 35 cts. each, \$3 for 10; heavier, 50 cts. each, \$4.50 for 10.

T. RICASOLENIA. T. Attractive vine with flowers of good size, white with reddish striped throats. 35 cts. each, \$3 for 10.

THUNBERGIA FRAGRANS. Mountain Creeper. T. India. This lovely, slender-stemmed, twining vine with its dark green leaves and pure white flowers is valuable as a ground-cover with slight overhead protection. Is doing nicely in pine sapling growths. 25 cts. each, \$2 for 10.



The Grotesque Garden of Tropical Succulents

Decorative Subjects

THE PROPER USE of this class of plants is probably as little understood as that of the Tuberous and Bulbous type, and because of their prominent characteristics and the fact that they are used rather as specimen subjects occupying prominent positions, it becomes all the more necessary that special care and thought should be exercised in planning for their positions in the landscape scheme. While they can frequently be used for grouping, they are not as a rule adapted to mass plantings—as a matter of fact, they are most effective when used in connection with mass plantings. Frequently continuous masses of foliage tend to become more or less monotonous and lacking in that tropical definition that it is so important to secure in the Florida and southern garden, and the use of such plants as Agaves, Pandanus, Yuccas, etc., planted at the ends of long groups or along their undulating lines, will serve to offset this and bring out expression as no other classes of subjects can.

Group I. Plants for Securing Picturesque Tropical Landscape Effects

AGAVE The Agaves, or Century Plants, are among the most striking and picturesque that can be used for securing tropical effects in the southern garden. They are particularly valuable when used in conjunction with the ornamental grasses and the bamboos, for which they make a pleasing foil in texture yet preserve the harmony of growth. We suggest them as single

specimens in corners of masses or terminations of long borders or in small groups. As they thrive on the thinnest and poorest of our sandy lands, the range of usefulness is very great. Where very formal effects are desired, as in vases at entrances or long terraces, they are invaluable and cannot be excelled. Several species are of economic value in the Tropics, but not as yet in the United States.



Screening the Garage and Lending an Atmosphere of Distance

A. AMERICANA VARIEGATA. Striped Century Plant. This is the large, grotesque plant with twisted leaves, dark green and striped yellow on the edges, so frequently seen in the tropical garden. Young plants, \$1 and \$2 each; specimens, \$3 to \$5 each.

A. MIRADORENSIS. Dwarf Century Plant. A rare form of particular value in patio and similar situations where its small size is well suited. The leaves are short and compact, recurving beautifully, the whole plant growing about 2 feet high and sending up a flower-stalk about 12 feet high. 50 cts. and \$1.

A. NEGLECTA. Blue Century Plant. Rich, blue-green leaves, wide and gracefully recurved. The handsomest large sort in our collection, and fairly hardy. A magnificent plant, beautiful in all sizes, and surpassingly fine for all decorative purposes. Fine plants, with beautiful leaves. 25 cts., 50 cts. and \$1.

A. SISALANA. Sisal Hemp. Mexico. Unlike the former, the leaves of this sort are straight and sword-like in character. They are more severe in effect and therefore can be used to better advantage in securing truly formal effects. This is the species that has proved so valuable in Yucatan where it is grown for its high-grade fiber. We can furnish this in large quantities to those interested in starting extensive plantings. Prices on application. Other prices, 12 to 18 inches high, at 25 cts. to 50 cts.; smaller, 15 cts. each, \$1 for 10, \$6 per 100.

CARICA PAPAYA. While this is most generally known for its fruit, it has special decorative value because of its large, palmate leaves which are handsome in form, as well as for its upright habit of growth in single trunk. See page 50.

CURCULIGO RECURVATA. Weevil Plant. East Indies. A broad-leaved plant growing about 4 feet high, with broad leaves very closely resembling seedling palm leaves or *Panicum palmifolium*. \$1.00 each.

EUPHORBIA PULCHERRIMA. Poinsettia. This wonderful plant, now so generally grown throughout Florida, even where subject to continual freezing, is too common to need description. Because of its large, scarlet bracts, it is a particularly hard subject to use satisfactorily with other colors, and great care should be exercised in its use. As the plants lose their green leaves, as a rule, they are likely to look like leggy scarecrows just at the time we would have them at their best. Our suggestion therefore would be that they be always planted in the rear of heavy borders of green-leaved plants, from which they can thrust their brilliant heads of flaring red bracts.

(The plants we offer are simply nursery stock, and not florist's stock in bloom.) 25 cts. each, \$2 for 10; larger, 50 cts.; extra-heavy plants, \$1.

DOUBLE POINSETTIA. Many prefer this to the common single form. 50 cts. each, \$4.50 for 10; extra heavy, in boxes, \$1.

WHITE POINSETTIA. The showy bracts are creamy white instead of flaming red. 50 cts.

FURCRAEA LINDENII. A splendid, variegated, agave-like plant of peculiarly elegant appearance.

The broad stripes of white show off very clearly. Rare new plant of recent acquisition, valuable as a house-plant. 35 cts. each, \$3 for 10.

PANDANUS UTILIS. Screw Pine. This well-known variety resembles a pineapple plant when small, having leaves with small red spines along the edges. A very symmetrical and handsome plant. Beautiful plants in several sizes. 50 cts. and \$1.

P. VEITCHII. Ribbon Plant. A magnificent plant, the broad leaves striped with creamy white and more erect than the preceding. Of special value for securing tropical effects in patios and for use in vases, window-boxes, and the like. 35 cts. each, \$3 for 10; heavier, 50 cts.

RAVENALA MADAGASCARIENSIS. Travelers' Tree. Madagascar. Has a trunk like a palm, with large, heavy, smooth leaves, two-ranked, something like banana leaves. Very beautiful and interesting. \$1.

YUCCA ALOIFOLIA. Spanish Bayonet; Spanish Dagger. Probably not hardy north of Middle Georgia. Flowers resemble those of *Y. filamentosa*, but are borne on a shorter stalk. Stem sometimes 10 to 20 feet high. Very ornamental even when small. Will bear neglect. This is an interesting plant for border-work, introducing along streams, and in other ways adding interesting and tropical touches to the landscape. Because of its great resistance to salt spray and considerable wind it is highly useful in the development of the water-front garden along the seashore, especially on newly-filled land. 25 cts., 50 cts. and \$1.

Y. ALOIFOLIA VARIEGATA. Leaves striped with white. Rare. \$1.

Y. FILAMENTOSA. Bear-Grass. A low-grower with tough leaves about a foot long. The tall flower-spikes stand erect to a height of 4 to 6 feet, carrying a large number of beautiful greenish white, bell-shaped flowers about 2 inches across. 35 cts. each, \$3 for 10.

Group II. Window- and Porch-Box Plants

This is another much-neglected phase of ornamental gardening in Florida. In spite of the fact that nowhere in the country can so large a number of plants be successfully grown and for so long a period in porch- and window-boxes as here, the average northern town of any enterprise in gardening matters makes far more and better showing during the few summer months than we do. And there is nothing difficult about the whole matter—anyone can mix up some good rich loamy soil and put it in boxes that anyone a little handy with tools can make—and after that there is practically nothing to it, but to see that the plants never suffer for water. Add a tablespoonful or so of ordinary household ammonia to each bucket of water every couple of weeks, especially as the plants fill up the boxes with roots—it will be found a great help in keeping them green and growing well.

ASPARAGUS PLUMOSUS. This vigorous-growing plant, with foliage of feathery delicacy, frequently misnamed "Asparagus Fern," is a subject of special value for this purpose. See, also, page 37.

A. SPRENGERI. An indispensable addition to the florist's col-

lection, particularly for growing in baskets, pedestals, and window-boxes, so that the long shoots may hang. It makes an exquisite combination of green foliage and scarlet berries. 15 cts. each, \$1.25 for 10; larger, 25 cts., 50 cts. and \$1; baskets, \$2.50.

AZALEAS for shady situations. See page 26.



The Tropical Grounds Book

BEGONIA MACROPHYLLA. Strong-growing species with leaves of enormous size, flowers white on tall stems above the foliage. 25 cts. each, \$2 for 10.

B. MIXED FLOWERING. Several varieties of flowering sorts, in pink or white. 25 cts. each, \$2 for 10; larger, 35 cts. each, \$3 for 10.

CUPHEA HYSSOPIFOLIA. Elfin Herb. Mexico. A small, shrubby plant with very small, narrow leaves and lavender flowers. 35 cts. each, \$3 for 10.

EPIPHYLLUM TRUNCATUM. Crab-claw Cactus. A fine house-plant, the succulent growths falling downward over the sides of pot or hanging-basket. Flowers come in midwinter and are very freely produced, of a rich, deep pink. 35 cts.

EUPHORBIA SPLENDENS. Crown of Thorns. A fleshy-stemmed, low-growing plant with dull spines along its full length; admirable for a sunny position on rocks, in vases, and the like. Flowers rich scarlet. 35 cts.

FERNS Exceedingly useful for window-box planting where not too sunny. Refer to Fern Department for a choice collection. Note particularly the Nephrolepis.

HEMIGRAPHIS COLORATA. A purple-leaved plant of trailing habit. Fine for baskets or as a cover plant, but needs heat in winter. 15 cts. each, \$1.25 for 10.

LANTANA PURPLE TRAILING. Without question one of the very best subjects for the window-box with its fine foliage and good trailing habit and heads of bright mauve flowers. We recommend it particularly for use with Asparagus sprengeri. 25 cts. each, \$2 for 10.

MESEMBRYANTHEMUM ROSEUM. Low-growing plant, admirable for window-boxes or raised beds, standing either full sun or partial shade. Flowers pink, about an inch across; leaves are fleshy. 15 cts. each, \$1 for 10.

PANDANUS Utilis and Veitchii. See page 39.

PHYLLOLUREA VARIEGATA. Crotons. Because of grown in full sun, they have proved very popular for window-box use. See Shrubs, page 31.

PHYLLOCACTUS LATIFRONS. Queen Cactus. The largest of the genus, growing 8 to 10 feet high; the stems 4 to 5 inches broad, and flat. Flowers are a fine creamy white, with a reddish tube, produced at night. 50 cts.

EUSSELLIA. See Shrub Department, page 28.

ZEBRINA PENDULA. Wandering Jew. A succulent creeping plant with green and yellow foliage overspread with a silvery sheen, purple underneath. This is useful for baskets and window-boxes, and in the open in South Florida as a ground-cover in shade under trees. 10 cts. each; sufficient for small basket, 25 cts.

Group III. Bedding Plants

ALTERNANTHERA A very dwarf, variously-colored foliage bedding plant, used quite frequently in the South for edging borders and walks. We have in stock four sorts—tall-growing red or green and low-growing red or green. Specify which sorts you prefer. 75 cts. for 10, \$6.50 per 100.

ANNUALS We can furnish young stock of a number of varieties of annuals, in variety, throughout the several seasons of the year. Write for list of kinds and prices.

CANNAS These magnificent foliage and flowering plants are used with telling effect in any formal plantings of beds or borders. See page 43 for descriptions and prices.

COLEUS Succulent, brightly-variegated foliage plants, admirably adapted for bedding out or for window- or porch-boxes. We can furnish them in mixed standard and trailing varieties at 15 cts. each, \$1 for 10, \$8.50 per 100.

LANTANAS Shrubby plants with brightly-colored flowers, useful for bedding out for quick floral

effect. Can be kept dwarf by pruning. See page 28 for prices and descriptions.

MESEMBRYANTHEMUM. See above.

VINCA ALBA. Periwinkle. A particularly valuable border plant for Florida gardens, resisting extreme drought. Attractive green foliage and pure white flowers about 1 to 1½ inches across. Strong seedlings from open ground, easy to handle. 50 cts. for 10, \$3 per 100.

VIOLETS Prince of Wales. Too common to require description. Can be grown either in full sun or where shady only in afternoon. In garden culture transplant every year in June or July. Our stock is pot-grown, however, and can be handled at any season. 15 cts. each, \$1.25 for 10; \$10 for 100.

XANTHOSOMAS AND ALLIED PLANTS. For large, massive bedding plantings these are magnificent. Make the soil very rich and do not spare the water. See Bulbous Plants Department.

Group IV. Miscellaneous

ASPIDISTRA LURIDA. An attractive, large-leaved subject, especially suited for dark halls and rooms, thriving with little light or attention. It is especially hardy over the lower South and can be used to good advantage for low foundation work against brick terraces, and the like. \$1.

DENDROPOGON USNEOIDES. Long Moss, Gray Moss, or Spanish Moss. South. Very effective in decorations. The effect of this moss hanging on the trees in the South is indescribable. Will stand sharp freezing unharmed. A nice quantity for 10 cts.; 25 cts. per pound.

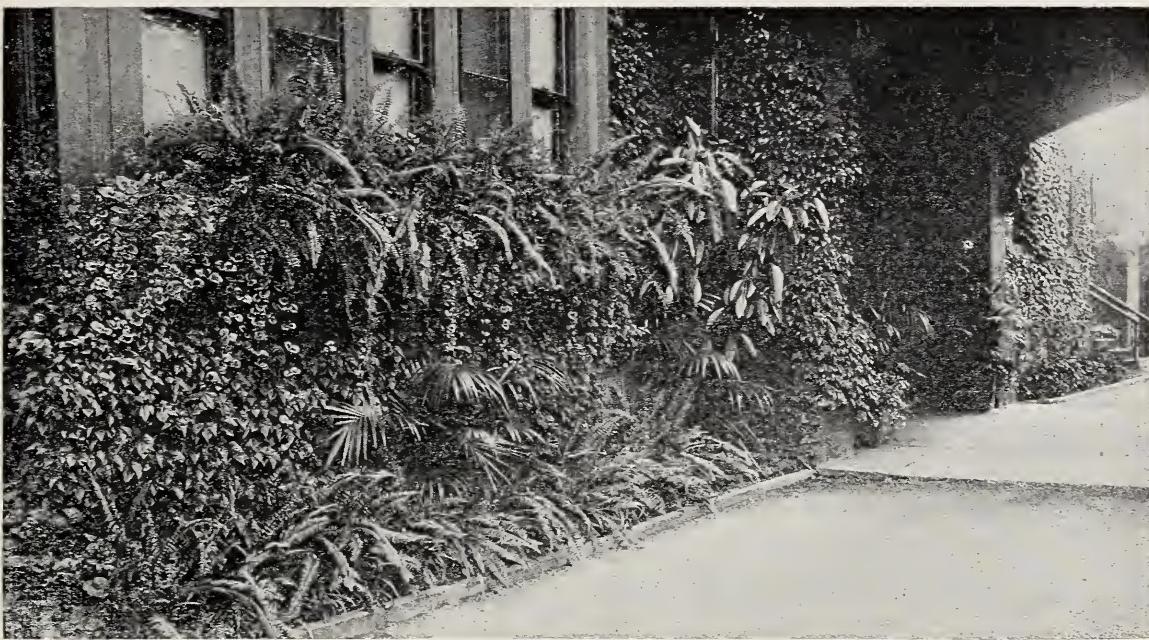
PEDILANTHUS TITHYMALOIDES. Red Bird Cactus. A low-growing, bushy, bright-green, fleshy-stemmed plant, admirably suited to low border planting, especially in mixed plantings where extra tropical effects are sought, as in patios, around pools, etc., 25 cts. each, \$2 for 10.

TILLANDSIA Air Plant or Wild Pine. A very large genus of ornamental plants of the easiest culture, requiring only to be attached to a block of wood and to be watered with the other plants. Tie with wire on rough bark; the plants hold water in their leaves. We list only native Florida species.

T. CÆSPITOSA. A species with long, grass-like leaves varying in color from gray to red; usually found in moist places. 15 cts.

T. FASCICULATA (T. bracteata). One of the largest Wild Pines or Air-Plants. Full-grown plants are 1 and 2 feet in diameter and height, spikes often 18 inches or more in length; the large, brilliant, crimson bracts and flower-stalks and purple blossoms are very showy, and remain beautiful for weeks. A most valuable plant for conservatory or bay window, enduring a low temperature (though but little frost); requiring no care except an occasional watering. Attach to wood or hang in a small wire basket. 25 and 50 cts.

T. UTRICULATA. The largest native species. Leaves an inch or two in width, and 2 feet or more in length in full-grown plants. Stems very tall, 3 to 5 feet, branched and many-flowered, but not so showy as *T. fasciculata*. A very rapid grower. Is easily established on a piece of wood, bark, or in a wire basket. Fine plants, 25 and 50 cts.



The Luxuriance of Ferns in Borders and Draped from Windows

Ferns and Selaginellas

THE USE OF FERNS in securing landscape effects is limited to certain special conditions. As a rule we do not recommend them for house borders where they are out of sympathy with their surroundings—though when so used on the cool, shady sides of the building, they can be interplanted with Sago Palms, Dracænas, and plants of like character to good effect. However, they can be much more effectively used as ground-cover in low, damp woods, along little streamlets, and so on, where they appear to good advantage and in their proper setting. The drooping Nephrolepis, and Polypodium can be used to telling effect by planting in the boots of tall palms, where they will flourish.

For decorative use, they are being used more and more for special purposes as greenhouse or home specimens in tubs, in fern-dishes on the table, and are especially desirable in window- and porch-boxes where they can be used with telling effect. In house culture, they should be given some sunlight because the diffused lighting inside is so weak that the fronds are likely to be thin and drawn. The soil used should be generally light with leaf-mold or very old, rotted manure. Too much manure or concentrated fertilizer is injurious, though some sorts will be benefited with considerable added as top dressing. Wooden tubs, if not too large for the specimens, are always much superior to earthen pots or other receptacles.

Special Notice.—Nearly all are pot-grown, so may be shipped at any time of the year.

Varieties with the asterisk (*) are the more hardy sorts. Others should be kept from hard frosts, being tropical. Our list embraces a very choice collection and will be found quite complete.

ADIANTUM HYBRIDUM. A very beautiful "Maidenhair" of exceptionally easy growth in pots or boxes. Small pinnae, and long fronds. \$1.

A. LUNULATUM. A "Walking Fern," rooting at the tips of plant; fine for baskets. 35 cts.

A. O'BRIENII. Very much resembling *A. hybridum*, with somewhat larger pinnae and more fronds. Well adapted to Florida. 50 cts. and \$1.

ALSOPIHLA AUSTRALIS. Australian Tree Fern. One of the handsomest of the tree-fern group, with thick, hairy stems, and graceful fronds of great beauty. Valuable for tub-culture in house and conservatory and for out-of-doors in lower Florida. \$1.

BLECHNUM SERRULATUM. * This handsome plant works well in large ferneries. Grows from 2 to 6 feet high. 25 cts. each, \$2 for 10; heavier, 35 cts.

CERATCPTERIS TARTAREA. Silver Fern. Tall and vigorous, with white powder on under surface of the fronds. Needs plenty of light and heat. 25 cts. each, \$2 for 10; heavier, 35 cts. each, \$3 for 10.

CIBOTIUM BAROMETZ. Lamb of Tartary. This belongs to the Tree Ferns, but has no trunk.

The broad, elegant fronds are lace-like with a delightful fragrance at times. Of quick and easy growth, this is a very popular house-plant. Strong, 50 cts. and \$1.

C. SCHIEDEI. Tree Fern. A very imposing Fern of rare beauty, and with a hardy constitution, so that it may be easily handled. Difficult of propagation, it will never be common. Fronds broad, of a drooping nature, so that the plant shows best when standing on a pedestal when in a young state before the trunk is of appreciable size. \$2.

LASTREA SPECIES. A delightful, low-growing fern, especially useful in the low fern border. Nice plants, 50 cts. each, \$4.50 for 10.

LOMARIA CILIATA. A baby Tree Fern, with rather coarse leaves. 50 cts.

LYGODIUM SCANDENS. Japanese Climbing Fern. * be a true Fern. Grows up vigorously to a height of 10 to 15 feet, and makes a mass of the most charming lace-like growth, admirable as a specimen plant, or when cut for decorations. Very useful to the florist. 25 cts. each, \$2 for 10.



The Tropical Grounds Book

NEPHROLEPIS *Sword Fern.* The various species of this popular genus are the best known house Ferns, growing under adverse conditions well and giving satisfaction to all. They are without doubt the most popular Ferns for the living-room and business office, being very showy and of very easy growth. They are grown in pots on pedestals, or in hanging-baskets, thus showing off their wonderful plumy fronds to best advantage.

N. BOSTONIENSIS. *Boston Fern.* Widely grown and a general favorite. A grand plant for general decorative use, always fine and beautiful. 35 and 50 cts.

N. CORDATA COMPACTA. Stocky and dwarf, with beautiful dark green leaves; a splendid plant, which should be freely used. Fine plants, 25, 35 and 50 cts.

N. CORDIFOLIA. Something like the preceding, but with longer fronds not usually so dark green, and growing up to 2 feet high. A fine species of easy growth for baskets. 25, 35 and 50 cts.

N. DAVALLIOIDES FURCANS. *Stag-Horn Boston Fern.* A grand decorative plant, with the ends of the fronds and pinnae curiously divided and crested. A magnificent subject for a jardiniere, growing up to 4 feet high and 6 feet across. Nice stock, 35 cts., 50 cts. and \$1.

N. DUFFII. A very distinct Fern, with exceedingly narrow fronds, having divided tips something like those of the preceding. Grows up to about 18 inches high. 35 cts. each, \$3 for 10; larger, 50 cts.

N., JOHN WANAMAKER. A rapid-growing sort, with long, narrow, gracefully drooping fronds. Distinct, 35 cts.

N. EXALTATA. *Sword Fern.* Tropics. Grows all around the earth. 25 cts. each, \$2 for 10.

N. ROOSEVELT. Resembles the Boston Fern, but has more fronds, is bushier and handsomer, and the pinnae are beautifully undulated, giving the entire plant a lovely waving effect. 35 and 50 cts.

N. SCOTTII. Scott's Compact Boston Fern. A good form of the Sword Fern with broader fronds and a greater number per plant than the common sort; semi-dwarf. A very fine Fern. Strong, beautiful plants, 35 and 50 cts.

N., THE VICTORY FERN. A beautiful, new, crested form of Teddy, Jr. 50 cts. and \$1.

N. WASHINGTONIENSIS. The largest growing of the Nephrolepis, and distinctive and distinguished in its appearance. Gigantic fronds are erect in habit, with long, wavy-margined pinnae. Very striking. Strong plants, 75 cts.

OSMUNDA *CINNAMOMEA.* Cinnamon Fern. * A hardy native Fern of very large size—3 to 5 feet—with fronds bearing spores, coming up in the spring without any green foliage. 35 cts.

O. REGALIS. The Royal Osmunda. * This has very fine foliage, and divisions growing up to 6 feet. 35 cts.

POLYPODIUM AUREUM. Golden Polypody. This has broad, coarse fronds, and grows in fiber of palmetto trees. Distinct, 25 cts.

P. POLYPODIOIDES (incanum). Resurrection Fern. * Small plant with short fronds 6 inches long, growing freely on rough-barked trees in Florida; in moist weather they uncurl and grow. 15 cts.

POLYSTICHUM CORIACEUM. Leather-leaf Fern. Very attractive, large fronds of deep green color which keep well when cut; now largely used by florists. Makes a handsome specimen up to 2 feet in height. 50 cts.

P. FALCATUM. (*Cyrtomium falcatum*). Holly Fern. This has dark green, very broad pinnae and makes a very fine specimen up to 18 inches high. 50 cts.

PTERIS CRETICA ALBO-LINEATA. A small plant not over a foot high, with fronds variegated white. 35c.

P. TREMULIA. Rather a large grower, 18 to 24 inches in height, dark green and attractive. 35 and 50 cts.

P. TRIPARTITA. A very strong grower reaching a height of 5 feet with good care. Striking and beautiful. 50 cts.

P. VICTORIE. Also a small, narrow-fronded species, variegated with white. 35 cts.

SELAGINELLA Club Moss. Very delicate, fern-like plants, reminders of the prehistoric coal age. They need heat and moisture and very little sunlight. Fine for Wardian cases.

S. BRAUNII. Erect species with curving fronds a foot long. Very beautiful and interesting. 25 cts.

S. CUSPIDATA. A dwarf tufted plant. 25 cts.

S. VOGEILLII. A fine, erect species, with leaves from 1 to 2 feet high, and showing bronze coloration at times. 35 cts.

S. WILLDENOVII. A giant creeping species, with elegant fronds of a pleasing shade of peacock-blue and green, bronze, and the like. 35 cts.

Tuberous, Bulbous and Herbaceous Plants

NO DOUBT the reason for the limited use of this class of plants is that its best use in securing landscape effects is so little understood and appreciated. Where the preparation of the soil has been adequate, and the situation determined with careful thought and precision, nothing can be more showy, effective, and, withal, satisfying, than the Hippeastrums, Crinums, Moræa and the rest of the long line in their proper environment. These flowering subjects should not be planted as isolated specimens or long, thin lines detached from any supporting lines or masses, as we so frequently see them, but rather should be mixed in the borders with low-growing shrubbery. Here they can throw out their blossom spikes and be assured of a strong support of green foliage, and when the blossoms are faded and gone, there is still the border.

Special Notice. The best time to set this stock is in winter or early spring, although it would not be fatal to transplant at any time of the year, except in a very few instances.

Explanation of the Starring System: * Hardy as far north as the Ohio River (or farther) in the open ground. ** Those of a semi-tropical nature, standing sharp frosts without serious damage. *** Those of a tropical nature, useful in frostless regions or for bedding out during summer at the North.

Group I. Flowering Bulbs for Winter or Spring Planting

So much effort has been wasted in the attempts of planters in Florida to have flowering bulbs, especially by those of short experience in this state, that we are adding to our already large organization a special branch dealing with bulbs, annuals and allied subjects. A few of these we list here and elsewhere in the catalog. While there are many others, we have selected those which our long experience have shown us to be most easily raised and in the long run the most satisfactory.

DAHLIAS These very satisfying flowering tubers should be planted only during the months of December to March for best results, in Florida. Our assortment is a choice collection of Florida-tested sorts in white, pink, yellow and red of the decorative class. 50 cts. each, \$4.50 for 10.

FREESIAS Interesting flowering bulbs, producing 6 to 8 blooms on stems about 9 inches high. Plant November to February 1.

PURITY. White. 10 for 75 cts., 100 for \$5.

RAINBOW MIXTURE. 10 for \$1, 100 for \$8.

GLADIOLUS *Sword Lily.* The past few years has seen a tremendous increase in popularity of this splendid flower which does so well under Florida garden conditions. While they can be planted almost throughout the year, for best results plant from December 1 on to summer. We can furnish fine, strong bulbs in the following colors—be sure and specify your preference in ordering: White and light-colored mixture. Pink mixture. Red and Scarlet. Yellow shades. 10 for \$1, 100 for \$8.

Blue Shades. 10 for \$2, 100 for \$15.



Royal Palm Nurseries, Oneco, Fla.

NARCISSUS (*Polyanthus* type). Deliciously sweet-scented and very free-flowering. For garden culture, plant from November 1 to February 1. Valuable for table culture in pots or pans where blooms can be had throughout the winter season.

CHINESE. Joss Flower. Silvery-white flowers with golden-yellow cup. Of exquisite beauty and entrancing perfume. 25 cts. each, \$2 for 10.

GRAND SOLEIL D'OR. A charming, rich yellow flower with deep reddish-orange cup. 20 cts. each, \$1.75 for 10, \$15 for 100.

PAPER WHITE. The flowers are a pure white. The common

type used for indoor-culture. 15 cts. each, \$1 for 10; \$8 for 100.

OXALIS *Bermuda Buttercup*. Charming little bushy plant growing only about 12 to 15 inches high and especially useful for edging walks, borders, and the like. A vigorous grower and producing an astonishing wealth of bloom for weeks. Flowers purest, bright buttercup-yellow. 75 cts. for 10, \$5 for 100. Plant November to February.

TUBEROSES *Mexican Ever-blooming Single*. Delightfully scented white flowers, each bulb throwing 2 to 5 flower-spikes in succession. Spring planting preferable. 25 cts. each, \$2 for 10.

Group II. Flowering Lily-like Species

CALLA DEVONIENSIS. Godfrey Calla. ** A decided improvement over the old-fashioned Calla. A good grower with large flowers of purest white. More floriferous than the old variety and not such a tall grower. Prefers a rich, mucky soil. Dry tubers in fall or winter, 25 cts. each, \$2 for 10; potted plants in winter or spring, 50 cts. each, \$4.50 for 10.

C. ELLIOTIANA. The finest yellow Calla, with large, rich, deep-golden flowers often 4 to 5 inches across. Dry tubers, fall and winter, 50 cts. each; potted plants, winter and spring, \$1 each.

CANNAS ** These splendid broad-leaved plants are used very widely in the North for securing tropical effects in bedding, and can be used to even better advantage here in the South. While they can be planted on almost any class of soil, they prefer a heavier one with a fairly constant water-supply. For this reason, they have proven especially useful in planting around the margins of lakes and along streams where they grow and flourish to perfection. With this they should have plenty of sunshine. After flowering, each matured stalk should be cut out to allow the young suckers to come into blossom.

PRICES: Austria, Italia, and Indiana, 20 cts. each, \$1.50 for 10, \$10 per 100. All others named, 25 cts. each, \$2 for 10.

AUSTRIA. Soft, chrome-yellow; height, 4 to 5 feet.

CITY OF PORTLAND. 3½ feet. Deep, glowing pink; profuse bloomer.

DUCA DI OTRANTO. 4½ feet. Rich scarlet and gold. One of the best for Florida growing.

DRAGON. Dark ox-blood red; leaves green; height, 3 to 4 feet.

FIREBIRD. Glowing scarlet; leaves green; height, 4 to 5 feet.

GAIETY. Vermillion and gold; leaves green; height, 3 to 4 feet.

HUNGARIA. A delightful shade of delicate rose-pink, like no other Canna. Grows 3½ feet high.

INDIANA. Rich orange; leaves green; height, 5 to 6 feet.

ITALIA. Golden yellow, blotted orange; leaves green; height, 3 to 4 feet.

KING HUMBERT. Glowing orange-red, with bronze leaves; height, 4 to 5 feet.

MAROS. 4½ feet. An attractive creamy white; best of this shade.

MRS. A. F. CONARD. Soft rose-pink; leaves green; height, 3 to 5 feet.

UNCLE SAM. Strong, fiery red; leaves green; height, 5 to 6 feet.

WINTZER'S COLOSSAL. 5 feet. Earliest and largest of the Cannas. Prolific bloomer, with vivid scarlet flowers.

WYOMING. Beautiful orange color; leaves bronze, or purple; height, 5 to 6 feet.

CANNA FLACCIDA. Orchid Canna. Native. Dwarf habit, with clear yellow flower 3 to 5 inches across. Light green leaves. Height, 2 to 3 feet. 15 cts. each, \$1 for 10.

CRINUM ** These magnificent flowering bulbs are closely related to Amaryllis and Pancratium. Evergreen, of easy culture in Florida in the open ground; in the North in the greenhouse.

C. AMERICANUM. Native. A most beautiful plant producing umbels of large, white, lily-like flowers often six or eight to the spike. A native of the Florida swamps, but, like most of the Crinums, not particular as to soil or situation. 25 cts. each, \$2 for 10.

C. CAMPANULATUM. A strong-growing plant with wavy-margined, strap-shaped leaves and throwing up scapes on which are borne from ten to twelve lovely bell-shaped flowers, white-striped, dark pink, 3 inches across, and petals strongly recurved. Strong bulbs, 50 cts. and \$1 each.

C. EMPRESS OF INDIA. Large plant, producing freely in summer, umbels of drooping flowers, deep rose-color, striped very pale flesh-pink. 50 cts.

C. FIMBRIATULUM. Nassau or Milk and Wine Lily. Guiana. A strong grower, not particular as to soil. Flowers in umbels, large and showy; striped white and carmine; 3 to 4 inches in diameter. 25 and 35 cts. each.

C. HYDRIDUM. J. C. Harvey. A fine, vigorous hybrid (C. Moorei x C. Kirkii) evergreen, partaking in habit almost equally of both parents; harder than C. Kirkii; adapted as well to tropical conditions as to more temperate climes. Flowers rose-pink, nearly as large as C. Moorei; more drooping in habit; not unlike Amaryllis Belladonna, exceedingly fragrant; very floriferous and of good substance, a single bulb often producing three flower-stalks in one season. \$2.

C. KIRKII. East Africa. The flowers are large, white, with a reddish-purple stripe on the outside of each petal which, showing through, gives the flower a pink tinge on the inside; some ten or fifteen of these flowers are produced at the top of a tall purple spike, and there are frequently two or more spikes of bloom from the bulb during the season. 35 and 50 cts.

C. KUNTIANUM. Vigorous-growing and abundant bloomer from New Granada. This is a grand species, with splendid flowers, dull white tinged with rose-red. 25 and 50 cts.

C. SCABRUM. Flowers dull white tinged with rosy-red. Leaves light green, spreading, with wavy edges. 50 cts.

C. VIRGINICUM. A choice hybrid originated in England; flowers very large and widely opened, white and rosy pink. 25 and 50 cts.

GLORIOSA Climbing Lily. This gorgeous lily-like plant is only suited to growth on fences, lattice, or similar support, so we classify it properly with the vines, which see, page 37.

HEDYCHIUM CORONARIUM. Ginger Lily; Butterfly Lily. *** This magnificent plant flourishes best on low, moist land, where it will form a dense clump 3 to 6 feet high. The roots are tuberous, and the plant may be safely grown over the entire South. The masses of fragrant, pure white flowers, looking much like large white butterflies, are borne in large clusters, terminal on every stalk, blooming all summer and fall. 25 cts. each, \$2 for 10.

HEMEROCALLIS Day Lily. * Old favorite plants for borders and beloved of our grandmothers; are splendid subjects for Florida and the South generally. We have four distinct sorts as follows, in fine, large sizes, at 25 cts. each, \$2 for 10.

H. FLAVA. Yellow Day Lily. *** Europe and Asia. This flowers early and is a splendid plant for the South. Flowers are about 5 inches across, clear yellow and on long stems, above the foliage.

H. THUNBERGII. Yellow Day Lily. * Europe and Asia. Flowers are about 3 inches across, clear yellow, and borne on long stems. Very beautiful.



Caladiums, Xanthosomas, and Like Plants for Bordering Water



H. FULVA. * Europe and Asia. The single form of the Tawny Day Lily. See the following:

H. FULVA FL.-PL. * Europe and Asia. The double-flowered form of the Tawny Day Lily. Flowers bright orange-yellow, very freely borne in early summer. This is a valuable hardy border plant; will grow anywhere.

HIPPEASTRUM EQUESTRE. Amaryllis or Barbados Lily. ** Tropical America. These

glorious, large, bright red, spring-flowering subjects are now commonly grown throughout the South, and masses of them should be in every garden. They are particularly useful for scattering in groups throughout the border plantings, naturalizing in the woods and along lakes and streams. They are of easy growth and spread freely, and in Florida fill the niche of the tulips of the North. 15 cts. each, \$1.25 for 10, \$10 per 100.

H. HYBRIDA. Hybrid Amaryllis. ** Hybrids of the choicest sorts procurable, through work of two of our most eminent Florida horticulturists and hybridizers. Flowers are large to very large, mixed colors, mostly scarlet, but with wonderful markings and stripes of pink or white, and the like, and many of them delightfully scented. They bloom in spring and are exceedingly showy and attractive. Bulbs which should bloom next spring, 35 cts. each, \$3 for 10; extra heavy, 50 cts. each.

Group III. Of Chief Value for Foliage Effect

These species do particularly well in a rather moist soil, particularly the Alocasias, Colocasias, Caladiums, Xanthosomas, and the like, and are especially happy and contented on the margins of streams and ponds where they make enormous masses of foliage, classic in design and invaluable for the striking effect they create in the garden picture.

ALOCASIA MACRORHIZA. *** Ceylon. This group includes the most classic-looking plants of the Caladium-like type, and we especially recommend them for securing tropical effects in patio and water-gardens as well as in the semi-formal gardens. 35 cts.

A. INDICA (A. plumbea). Arrowhead. *** Borneo. This is a particularly fine subject for use in vases, with its stiff, arrow-like leaves of deep reddish-purple and lead-green color. 50 cts.

See Xanthosoma and Colocasia in this Group for allied plants.

ALPINIA NUTANS. Shell Flower. ** A strong-growing, tuberous plant, the heavy, long leaves of which give out a strong, spicy odor when crushed. The mottled yellow-orange flowers suggest sea-shells, whence the name. Strong plants, 50 cts. each, \$4.50 for 10.

AMOMUM CARDAMOMUM. Cardamom Plant. ** This plant is decorative for its foliage only, but of particular interest in the thick, leathery leaves which, when crushed in the hand, give out a strong, delightfully "gingery" odor. Does especially well when supplied with considerable moisture, but will grow nicely on any good soil. 35 cts.

BRYOPHYLLUM PINNATUM. Live Forever. ** An odd and rapid-growing succulent. Flowers green and reddish bronze, in form of bladders. One of those strange plants that are propagated from leaves. Extremely curious. The leaves may be pinned on the wall and will throw out sprouts from every notch without watering. Naturalizes itself nicely on any favorable location, liking particularly one that is part sun and part shade. 15 cts. each, \$1 for 10.

CALADIUMS FANCY. *** Splendid ornamental foliage, dying down through the winter. Leaves arrow-shaped, marked with the brightest colors — red, green, yellow, purplish, and sometimes almost a transparent white. No other plant possesses more richness or delicacy in coloring. Prefers a moist and half-shaded place with rich soil. They are grand house-plants and fine for window-boxes, etc. Our collection is one of the finest in this country.

Mixed Sorts. 25 cts. each, \$2 for 10.

BEST NAMED SORTS. 50 cts. each, \$4.50 for 10.

COLOCASIA ANTIQUORUM ILLISTRIS. ** India. Closely allied to Alocasia and Xanthosoma. This grows from 18 inches to 3 feet high. Leaves heavily blotched with velvety black. A splendid plant and fine for massing. 25 cts. each, \$2 for 10.

C. ESCULENTA. (Caladium esculentum.) Elephant's Ear. ** The well-known showy green-leaved summer bedding plant. Enormous-sized leaves; plant growing up to 7 or 8 feet. 25 cts. each, \$2 for 10.

C. SPECIES. Dasheen. ** A splendid starchy food-plant, resembling potatoes and now grown generally in Florida for the markets. 15 cts. each, \$1 for 10.

HELICONIA BIHAI. Wild Plantain or Balisier. *** Central America. A fine plant, growing to a height of 10 to 15 feet, resembling a musa (banana). Green foliage, purplish stems, yellow flower-spikes. 75 cts.

HYMENOCALLIS CARIBEA. (*Pancratium caribaeum.*) Spider Lily, or Spanish

Lily. ** West Indies. A bulb of easiest culture, producing large clusters, a few plants giving a succession of bloom all summer. Color, pure white. Strong bulbs, 15 cts. each, \$1.25 for 10; extra heavy, 25 cts. each.

IRIS HEXAGONA. Blue Flag. * Native. Evergreen. A hardy southern variety of the greatest possible beauty. The loveliest flower of the whole South. Rich purple and blue with yellow markings, 3 to 4 inches across; resembles the costliest and rarest orchid flower. Blooms in spring. 15 cts. each, \$1 for 10.

LILIMUM HARRISII. Easter Lily. * Too well known to need description. Plant from August to November 15. Nice, strong bulbs, 35 cts. each, \$3 for 10; potted plants, 3 to 4 to the pot, \$2 each.

MORAEA IRIDIOIDES. Natal Lily. ** South Africa. A lovely iris-like plant, to which it is closely related, with numerous fan-shaped clusters of flat, tapering, ribbon-like leaves and spikes of flowers 3 inches across, white, marked yellow on claws of outer segments and style crests marked with blue. This succeeds here to perfection and is without a peer as a border plant in Florida. 35 cts. each, \$3 for 10.

MARANTA ARUNDINACEA VARIEGATA. Arrow Root. Commonly catalogued as *Phrynium variegatum*. A plant with canna-like foliage growing to a height of 3 feet, beautifully variegated with white. 25 cts. each, \$2 for 10.

PIAROPUS CRASSIPES. The famous Water Hyacinth. A beautiful floating plant with bright flowers in spikes, lilac, blue and yellow; 2 inches across. Will grow in clear water in the house admirably. A valuable forage plant for cattle; will grow in ponds and streams all along the Gulf Coast. Special prices for large quantities. 15 cts. each, \$1 for 10, \$5 per 100.

RENEALMIA SPECIES. Porto Rico. Related to Alpinia. Flowers yellowish in scarlet bracts which remain on indefinitely. 25 cts. each, \$2 for 10.

SANSEVIERIA GUINEENSIS. African Bow-String Hemp. A quick-growing and valuable fiber-plant. Leaves are long and sword-shaped, mottled a greenish white. This and following species are undoubtedly the toughest plants known that may be used as decorative subjects. They live in water, or dry soil, for weeks, and in dark rooms for months without attention. Strong plants, 15 cts. each, \$1.25 for 10; larger, 25 cts. each, \$2 for 10. Decorative for jardinières, 75 cts.

S. LAURENTII. Resembles the following variety except that it has a broad, striking band of yellow down the edge of each leaf. Strong plants, 50 cts. each and \$1. Specimens, \$1.50.

S. ZEYLANICA. Ceylon Bow-String Hemp. As a fiber-plant this has been prized from remote antiquity. A finer decorative plant even than *S. guineensis*, at 25 cts.; decorative, 75 cts.

THALIA DIVARICATA. A magnificent native, ornamental bog plant, which may be grown at the North as easily as a canna. The enormous leaves, with red midribs, resemble the banana, and are 2 to 4 feet long. Flowers purplish, borne on stems 6 to 10 feet tall. 25 cts. each, \$1.50 for 10.

XANTHOSOMA BATAVIENSIS. ** Leaves rather long and arrow-shaped, dark green, with veins and ribs showing purple on under surfaces; stems also purple. This like all the following species are wonderful bedding and border plants for rich soil. 35 cts., \$3 for 10.

X. MARSHALLI. ** Very quick-growing, of medium size. Green leaves and dark stems; an especially good bedder for all parts of the states having warm summers. Quite different from the common "Elephant Ears" so often seen, and being of easy growth can not fail to give satisfaction. Strong tubers, 15 cts. each, \$1 for 10.

X. SAGITTIFOLIUM. ** Leaves large, pale green. Tubers sometimes used as food. A strong grower of great possibilities in bedding and border planting on rich soil. 25 cts. each, \$2 for 10; larger, 35 cts.

X. SPECIES UNKNOWN. ** Leaves velvety green, moderate sized. 25 cts. each, \$2 for 10; larger, 35 cts.

X. VIOLACEUM. Blue Spoonflower. ** A grand species, of large size, with deep, bluish-green foliage and very dark stems. A superb decorative subject; evergreen habit. 25 cts. each, \$2 for 10; extra-sized, 35 cts. each.



Royal Palm Nurseries, Oneco, Fla.

Fruit Trees and Plants

THE GENERAL CULTURE of fruit trees and plants is not essentially different from that of other subjects; a modicum of common sense with a little experience, and knowledge gleaned through study is worth more than some of the advice your neighbors will give. Not but that their advice may be good so far as it goes in many cases—but ten to one they will either give different or varying opinions, or all agree on the wrong idea. That which you learn for yourself you learn well, and will probably fit your case better. Of course, there are special considerations with certain subjects like Avocados, Mangos, Citrus Trees, and the like, and yet after all, it is a little odd how many instances there are of beliefs of a few years ago that were thought as unchangeable as the universe upon which we now look back and wonder how we could have believed them at all.

While the growing of the more tropical varieties of fruits is not to be generally recommended except in the most protected sections and spots of the state as a commercial proposition, we would call your attention to the fact that there are a number of such subjects that even when frozen down will throw up strong shoots that bear again after a reasonable time. For that reason they should receive consideration in much of Peninsular Florida, even above the mythical "frost-line." Among them we would include the Guavas, Surinam Cherry, Pineapples, and Papaws.

Explanations of Symbols. T., tropical sorts, adapted only to extreme South Florida planting out of doors, or to plant-sheds where they can receive adequate protection, or to the conservatories of the North. ST., semi-tropical sorts adapted generally to Peninsular Florida where, even if frozen back more or less, they come right out and flower and fruit with little setback. H., hardy subjects for general planting over Florida and the Gulf Coast. All tropical stock does best when set in warmer weather. Of the hardier (H) subjects, those marked with "W" should be set only during the period of December to February, with December much to be preferred. Those marked P are pot-grown—others grown in open ground.

Group I. Tree Fruits

CITRUS FRUITS

Our nurseries for citrus stock are on high sandy soil, insuring good roots. This class of stock succeeds equally well on low or high lands when transplanted, but when set on low lands the planter should make large mounds so that in wet seasons the crown-roots may be well out of standing water. On low lands, if there is hard-pan, the holes should be blasted by dynamite, and free use of lime or marl made; the tap-roots should be cut rather short also—say 9 to 12 inches.

PRICES ON CITRUS TREES.—For all varieties except those specially noted in descriptive text.

	Each	10	100
2 to 3 ft.	\$0.80	\$7.00	\$65.00
3 to 4 ft., $\frac{1}{2}$ - to $\frac{5}{8}$ -in. cal.	1.00	9.00	85.00
4 to 5 ft., $\frac{5}{8}$ - to $\frac{9}{8}$ -in. cal.	1.40	12.50	120.00
5 to 6 ft., $\frac{9}{8}$ - to 1-in. cal.	2.00	18.00	170.00
Two-year, 1- to $1\frac{1}{4}$ -in. cal.	2.75	25.00	225.00

GRAPEFRUIT or POMELO. (*Citrus grandis*.) **ST. FOSTER.** The newest and most valuable of all Grapefruit, identical with the celebrated Walters, from a tree of which it is a "sport," except in the color of flesh, which is described in the Government Pomological Notes as follows: "Next to the skin the flesh is a light purplish pink color, which shades to a clear translucent color at the core; there is very little pulp." Prof. Hume writes: "My opinion of the Foster Grapefruit is that it is a fine fruit. It is the best early Grapefruit that I know of. It was in good eating condition at Winter Haven earlier than any other variety we have tested, and I think we have them nearly all." On rough lemon and sour orange stock, in all sizes.

MARSH SEEDLESS. Medium to large size; almost or quite seedless; juice somewhat bitter. The fruit is late in ripening and holds exceptionally well without waste. Grown on sour orange and rough lemon stock in all sizes.

KUMQUAT (*Citrus japonica*). **OBLONG** or **NAGAMI**. St. A small fruit and dwarf tree; admirable for small plots of ground or for conservatories. Fruit eaten either raw or cooked. Very ornamental. Prices on a special stock, particularly adapted. 1-yr., \$1.50. (Trees are bushy and can not be graded with standard citrus trees.)



Assorted Citrus Fruits—The "Stand-by" of All Florida Fruit Collections



The Tropical Grounds Book

LEMON (*Citrus limonia*). **DWARF CHINESE**. ST. Valuable as a pot plant in the North, being very ornamental. In winter "a small plant often has a dozen large Lemons hanging on its branches," rather roundish in outline. This has proved specially hardy in Florida and the fruit is available almost the entire year. Juice very acid and valuable. On sour orange and Cleopatra Mandarin stock in smaller sizes.

LIME (*Citrus aurantifolia*). T. The Limes are generally more tender than other citrus trees, and should have protection from cold in frosty locations. Limes have a very agreeable acid and are especially valuable for South Florida, both for home use and for market. Especially delightful when used on Avocados.

TAHITI. One of the most satisfactory of all the acid fruits for home planting, being a vigorous grower and remarkably free of insect and fungus troubles. Of the shape and size of a small lemon, but with the finest of lime flavor, it is superior to all for making ade. Seedless. Fruits at all seasons but heaviest in summer when most in demand. On rough lemon stock only, to which it is peculiarly well fitted, in 4- to 5-foot grade only.

LIMEQUAT EUSTIS. A hybrid of the common lime and Oblong Kumquat by the Department of Agriculture. Tree is a good grower and bears two or three crops under good care per year. Fruit oblong, about size of lime, thin-skinned, acid, and may be used in place of limes or lemons. Very hardy and may be grown all over Florida. On Cleopatra Mandarin and Trifoliolate orange stocks, one-year, 2- to 3-foot grade, at \$1 each.

MANDARIN (*Citrus deliciosa*). ST. All in this group have usually flattened fruit, with fruit segments and skin loosely adherent, and called "kid glove" Oranges.

DANCY (Tangerine). Fruit of delicious sparkling quality; mid-season in ripening; skin orange-red, very highly colored. On sour orange and rough lemon stock, in 4- to 5-foot grade only, at \$1.85 each, \$16.50 for 10.

KING. A very large Mandarin with peculiar rough skin, ripening from March to May. On sour orange and rough lemon stock, in 4- to 5-foot grade only, at \$1.85 each, \$16.50 for 10.

ORANGE (*Citrus sinensis*). ST. With the perfecting of the methods of handling fruit by the Florida Citrus Exchange, Orange-growing has taken on new life and prosperity, and bids fair to more than hold its own as a business for Florida. We offer only the cream of the many kinds which all grow to perfection in Florida.

LUE GIM GONG. "A late round Orange of unusual merit," originating at DeLand, Florida. The fruit is of the very best quality, large size, good color, and holds on the tree well, all summer, like the Valencia. On sour orange and rough lemon stock in all grades.

PARSON BROWN. The best of the early Oranges grown on a commercial scale. The fruit is of medium to large size, excellent quality and ripens as early as last of October and November. Furnished on sour orange and rough lemon stock in all grades.

PINEAPPLE. A strong, upright grower and prolific bearer. Medium to large size fruit, thin, tough, very bright colored skin, juicy and of fine, distinctive flavor. On rough lemon and sour orange stock in all grades.

RUBY. A blood Orange of merit, ripening fairly early and in season until February. The "blood" coloration only occurs very late in the season. A very prolific bearer. On sour orange and rough lemon stock in all grades.

SURPRISE NAVEL. The best of all navels so far tried in Florida. Season December to February. On rough lemon and sour orange stock in all grades.

VALENCIA LATE. Synonyms: Tardiff, Hart's Tardiff, Hart's Late, etc. Very late keeper, season being from March to July, or even later. A fine, heavy Orange of exceptional value. On rough lemon and sour orange stock in all grades.

TANGERINE. See Mandarin.

TANGELO ST. Of the many hybrids made in the past thirty years among citrus fruit trees, this type from the Tangerine and Pomelo is of great value and interest. From the various sorts produced, we like the Sampson so far the best, and have trees on sour orange stock 2 to 3, 3 to 4, and 4 to 5 feet in size, at regular prices of other citrus trees quoted.

CALAMONDIN (*Citrus mitis*). ST. A small citrus tree rarely over 15 to 18 feet in height, from the Philippines, proved quite hardy here, and exceedingly prolific, bearing one or more crops per year. The fruit is small, round, or oblate, about an inch thick (or like the lime), very acid, and fine for summer drinks, or for marmalade. Because of its resistance to cold, it being one of the most hardy of the citrus fruits, it is especially valuable for growing on home places in connection with the harder avocados, taking the place of the lime in sections where that fruit will not stand the winter temperatures. The avocado is especially delicious with the juice of the more acid citrus fruits. On *Citrus trifoliata* roots, 2- to 3-foot grade, at \$1 each, \$9 for 10.

OTHER TREE FRUITS

ACHRAS SAPOTA. Sapodilla. T. Evergreen tree bearing russet fruits with thin, shell-like skin and containing juicy and most luscious pulp. As it stands even actual inundation of salt water, it is to be especially recommended for seashore planting in South Florida. See, also, Tree Department, page 16. Nice small stock, all pot-grown plants, 50 cts. each, \$4.50 for 10.

AMYGDALUS PERSICA. Peach. HW. A deciduous tree bearing delicious fruits of distinctive flavor, particularly valuable as they come in much earlier than the northern Peaches. We offer only a selected list of choice varieties which, when grafted on plum stock, are free from root-knot. They should be planted only on well-drained land; in fact, after once established, they will succeed well on high, dry ridges where many other fruits fail. Set deep so that graft union is several inches under the soil.

PRICES ON PEACH TREES.
On Plum Stock: 4 to 5 feet high, 65 cts. each, \$5.75 for 10.

ANGEL. Of good size, with yellow skin, washed with red. Flesh white. Freestone. Ripens in June.

HALL'S YELLOW. A late-ripening freestone, maturing in late June or early July. The fruit is large; skin yellow, washed with red; flesh yellow and red at stone. Quality fine.

JEWELL. The earliest and best market Peach for South Florida planters. Is of medium size, high color, fine quality and freestone. Ripens in May.

MIAMI. Large, creamy yellow; ripens in May about same time as Jewell.

RED CEYLON. Very productive, freestone, ripening in May or later, of medium size and special value for cooking.

AVERRHOA CARAMBOLA. T. Carambola. Molucca Islands. Small evergreen tree, quite ornamental. Fruit five-angled, 3 to 5 inches long, quite acid, used in cooking. 50c.

CARYOPHYLLUS JAMBOS. Rose Apple. T. Evergreen, rose-scented and rose-flavored fruits, valuable for cooking and candying. P. Strong plants, 50 cts. each, \$4.50 for 10.

CASIMIROA EDULIS. White Sapota. T. Tropical America. A large, handsome spreading tree that bears well in South Florida, and is harder than most tropical trees. Fruit is yellow, about size of small orange, round, with smooth skin. The three or four seeds are imbedded in the delicious sweet pulp, peach-like in flavor. The fruit keeps well and has market possibilities. Our seed is from the finer Mexican strains. Nice pot-grown seedlings at 35 cts. each, \$3 for 10.

CECROPIA PALMATA. Snakewood Tree. T. Tall-growing tree with handsome palmate foliage. Fruit curiously like fingers, soft and sweet, resembling fig, and with minute seeds. The flowers are dioecious, so several of the trees should be planted to insure a bearing specimen. P. 35 cts. each, \$3 for 10.

CHRYSOBOLANUS ICACO. T. Coco-plum. Florida and the West Indies. Small, spreading shrubby evergreen tree, bearing plum-shaped fruits of pink or dark purple skin and white, agreeable flesh. 35 cts. each, \$3 for 10.



COCCOLOBIS UVIFERA. Sea-grape. T. Beautiful evergreen tree with purplish fruit borne in spikes like currants, ripening in September, and from which a very fine jelly is made, of superior quality. See Tree Department, page 17. P. 25 cts. each, \$2 for 10; larger, 50 cts. each, \$4.50 for 10.

DIOSPYROS KAKI. Japan Persimmon. HW. A valuable fruit for the entire South even to southern Florida and since the discoveries regarding pollination of the flowers, far more desirable to plant both for home use and market. The Gailey variety was found to be constantly staminate in flower, so bears abundantly and furnishes pollen for surrounding trees. It should be in every collection of mixed planting, although the other varieties we offer bear well singly.

Prices on standard grade, 4- to 5-ft. trees, 65 cts. each, \$6 for 10.

FUYUGAKI. A new variety of Persimmon of particular interest and merit, never being astringent, and can be peeled and eaten while still hard like an apple. Of medium size, slightly flattened and deep red color; it keeps well and promises to be the best of the commercial varieties.

GAILEY. Small, oblate-conical, dull red in color; flesh dark about the seeds, meaty, firm and juicy. A new introduction recommended for planting with other Persimmons, but fruit only fair in quality.

TAMOPAN. This is a grand acquisition, introduced from China. Fruit very large, up to one pound in weight, flattened, with constriction about the middle; color orange; fruit astringent until fully ripe; quality very fine. This is a vigorous grower of large size and should be freely planted.

TANE-NASHI. Large roundish, conical, about 3 1/4 by 3 3/4 inches in size; skin yellow, changing to bright red; flesh yellow, seedless, of best quality. Vigorous and prolific, bearing abundantly every season; this has proved the best of the older sorts for market.

TRIUMPH. Fruit rather small, tomato-shaped; skin deep red in color. Very productive, of good quality, ripening from September to December. This makes a good-sized tree and succeeds in South Florida.

ERIOBOTRYA

JAPONICA, Loquat; Medlar, or Japan Plum. HW. A most valuable winter and spring ripening fruit, yellow, size of plums, deliciously flavored, and fine for preserving. This should be grown extensively in Florida for both home markets and for shipping. As the flowers are sometimes frost-bitten, grow in protected places, or fire during the time of the cold spells. The tree is evergreen, with handsome large rough leaves, worthy of being grown simply as an ornamental both in pots and outdoors. Pot-grown common seedlings, 25 cts. each, \$2 for 10; open ground, 2 to 3 ft., 50 cts. each, \$4.50 for 10.

In named varieties we can furnish the following extra-choice large-sized, fruity sorts which we can especially recommend to all planters:

ADVANCE. Seedlings from open ground, strong, 2 to 3 ft., 50 cts. each; 3 to 4 ft., \$1 each; 4 to 5 ft., \$1.50 each; nice grafted stock in pots, strong, \$1.50 each.

EARLY RED. Strong grafts in pots, \$1.50 each.

PINEAPPLE. Strong grafted plants, in pots, \$1.50 each.

CHOICE ASSORTED SEEDLINGS. We have been growing a choice collection of kinds, selected from the very best flavored and large fruited varieties. These we are offering this year in strong pot-grown stock at 50 cts. each, \$4.50 for 10.

EUGENIA C U R R A N I I . Lipotii. T. P. I.

A very acid but agreeable fruit about the size of a grape. Occasionally eaten fresh but better for preserve. Makes an attractive lawn tree. 50 cts. each, \$4.50 for 10.

FICUS CARICA. Fig. HW. One of the most delicious of all fruits, which does well along the Gulf Coast. In Florida, owing to presence of nematodes, care must be taken in heavy mulching (preferably of stones or brick-bats) as a preventive, or planting close to the building under which the roots will be shaded. Another excellent plan for growing Figs in South Florida is the following: Make ridges in mucky swamps or ponds so the surface is above high water. Set Fig trees on these ridges and fertilize with chemical fertilizers and poultry droppings. Mulch the surface.

Prices of trees, 2 to 3 ft., 40 cts. each, \$3.50 for 10.

BROWN TURKEY. Good size, yellowish brown; pulp tender, rich and finest quality; long stems.

BRUNSWICK. Fruit large, dark violet in color; flesh white and pink. Very strong grower and prolific fruiter.

CELESTE. Often called "Sugar Fig," as its fruit is so very rich and sweet. A small fruit, brownish yellow, borne in profusion. Very hardy.

GREEN ISCHIA. Skin a light green color; flesh white, with light red center. An upright grower and hardy.

LEMON. Large, lemon-colored fruit, ripening early.

HICORIA PECAN. Pecan. HW. Pecan nuts form a staple crop in the South and fine, large nuts bring high prices. The industry is a safe one in the proper latitude. The Lower South has an immense area of excellent soil, suitable for these trees. In South Florida select good medium high land with yellow or chocolate subsoil, and give moderate amounts of manure. Price of standard size, 4 to 5 ft. trees, \$1.50 each, \$14 for 10.

CURTIS. One of the very best for South Florida planting, both in respect to bearing and quality. Medium in size with bright, clean, thin shell and full, plump, yellow kernel of rich, nutty flavor.

FROTSCHER. This is doing very well in South Florida, and we recommend its more extended planting. A large oblong nut about 1 3/4 inches long, with very thin shell. Kernel large, easily removed, of delicious flavor. Tree vigorous in growth and a heavy bearer.

STUART. One of the oldest named sorts. Nuts of large size and of splendid flavor. A heavy bearer.

LITCHII CHINENSIS Litchee

Fruit. ST. Native to China. A tree of medium growth with dense, very handsome foliage. While the fruit of the ordinary kinds is of small size and mediocre, our stock is from the finest strain of large-fruited improved sorts, layered from fruiting trees. Our parent trees fruited for the first time in 1916 and the fruits proved to be of very large size, 1 1/2 inches long, and 1 3/8 inches thick, most of them having no seeds. The fruit hangs in clusters, having a thin, roughened, tough skin-like rind, of a brilliant red color when ripe, and the translucent white flesh is firm and jelly-like in consistency and of exquisite, refreshing flavor. This promises to be one of the most prominent fruit crops of the state, both because of its popularity with those to whom the fruit is familiar and also because the tree is harder than the mango—about like the lemon. The dried fruit is not unlike raisins, in which form it is shipped in large quantities from China. It is also preserved in several forms. The Litchee was first introduced by us about fifteen years ago, one of the trees fruiting in California in 1914. Layers from fruiting specimens, pot-grown, \$3.50; seedlings, \$2 each.

MACADAMIA TERNI-FOLIA

Queensland Nut. T. Australia. Moderate sized tree, about 40 feet high, with dense, prickly dark green foliage somewhat resembling chestnut. The hard-shelled round nuts have solid "meats" that are very rich and oily and of most delicious flavor. It has borne at several points in the state. 50 cts. each, \$4.50 for 10.



Florida Peaches Packed for Market

The Tropical Grounds Book



MANGIFERA INDICA. **Mango.** T. One of the most important tropical fruits for South Florida. We have been importing the delicious East Indian varieties for years, and we were the first to introduce these in Florida, beginning in 1887. Our stock is probably the largest in Florida. All sorts named are East Indian varieties of exceptional value, almost or entirely devoid of fiber. These should be planted everywhere in South Florida (and of course in the Tropics generally); in Florida in protected spots or else protected as per suggestions on page 6.

Nothing compares with the improved Mango for table use, and even one tree is worth a lot of trouble to grow, as grafted stock bears early and abundantly.

Mango fruit is delicious sliced like peaches for dessert; the fruit may be cut around on the "edge" and twisted apart easily in some of the best sorts as Haden, Cambodiana, Langra Benarsi, Totafari, Paheri, Sandersha, and the like, and the pulp scooped with a spoon from the center, leaving the skins, as one does in eating grapefruit. Mangos are also used in a number of ways cooked—preserved, canned, marmalade, chutney, pickled, and the like.

Our plants are all inarched (or grafted) on to pot-grown 2-year-old seedlings, and may be set safely at any time of the year, being strong and vigorous trees, well rooted. Pot-grown stock is the only safe stock to handle, as the Mango when transplanted from the open ground is very likely to die except in very large specimens.

Prices on all sorts, for strong, inarched plants, pot-grown, \$2 each, \$18 for 10; \$160 for 100.

CAMBODIANA. Very rapid grower, bearing medium to large fruit; early ripening; color yellow; shape long; rather more acid than most sorts if gathered before coloring, but when ripened on the tree quite sweet. Very fine sort, without any turpentine taste. One of the best, both as to quality and bearing habit.

FERNANDEZ. Of medium size and fine quality, this variety is the latest sort, ripening into October usually.

GOA ALPHONSE. This is one of the most attractive fruits yet fruited here and is of excellent quality. Considered one of the finest grown around Calcutta. Of large size and bright red cheek.

HADEN. A fine variety originated by the late Captain Haden, at Coconut Grove, Fla., from seed of Mulgoba. Has high color, clear yellow and with a brilliant red cheek; quality similar to the parent, and much more prolific. Very popular in Dade County and considered by many superior to Mulgoba in all respects.

ITAMARCA. One of the most unusual Mangos we have yet fruited. Of flat, tomato-like shape, weight averaging from 6 to 10 ounces. The quality is excellent, being spicy and distinctive, and the tree has the added virtue of being a prolific bearer.

LANGRA BENARSI. One of our introductions from India, which bore in 1910 for the first time. This has proved very prolific and is a strong grower. The fruit is the largest we have ever seen, weighing up to 3 pounds, 12 ounces each! Very little fiber, flavor rich and juicy; color of skin yellow or greenish yellow.

PAHERI. Imported by Department of Agriculture, and fruited in 1910 for the first time in Florida. One of the finest sorts grown in India. General form is roundish, about 3% by 3% inches. Skin thick, yellow and green when ripe, touched with garnet-red on the sunny side — very attractive. Flesh yellow, tender and juicy; sweet and aromatic. Of very highest quality.

PICO. Extra good dessert quality, being rich and sweet yet retaining the best of the real Mango character. Unusually large amount of flesh to seed, and small amount of fiber. Color yellow.

SANDERSHA. So far as known, the latest to ripen. Fruit long, yellow, large size, sometimes nearly 3 pounds each. Flavor good, but somewhat acid.

SINGAPUR. Our own importa-

tion, which fruited for the first time in 1911, and proved to be all that was claimed for it by our Indian correspondent. The skin is green and golden yellow, finely mottled, thick and strong, with a grayish blue bloom, clean and free from spotting. The flavor is distinct, rich and sweet, with characteristic true Mango flavor. The fruits are remarkably uniform in shape, meaty, thick and solid—perfect, weighing from 14 to 20 ounces each.

TOTAFARI. One of the best sorts, resembling Sandersha, but only about half the size. Bears well when very small, and is prolific.

SEEDLING MANGOS. P. From Number Eleven. 50 cts. each, \$4.50 for 10.

SEEDLINGS MIXED. P. 1-yr., 25 cts. each, \$2 for 10.

MORUS ALBA. **Mulberry.** HW. A very useful tree for shade as well as for the fruit which is borne in profusion; of value for hogs as well as for human consumption.

Prices, 4 to 5 ft. high, 60 cts. each, \$5 for 10.

MERRITT. Very early; berries large, black, and of excellent flavor.

STUBBS. One of the very best, following the preceding in ripening. Fruit of largest size, largely used in cooking and for bottling the juice.

OLEA EUROPÆA. **Olive Tree.** H. Our stock is of the celebrated "Mission" variety, and while we do not recommend it for fruiting purposes at all, it makes a very lovely lawn tree and for lining alleys in gardens. Of erect habit and, with age, a knarled, twisted character, it makes a pleasing picture for the home grounds. The foliage is willowy and of a soft gray that lends a delightful suggestion of long distances. P. Strong, vigorous plants, \$1.50 each.

PERSEA AMERICANA. **Avocado; Aguacate; Alligator Pear.** (Former name is misnomer.)

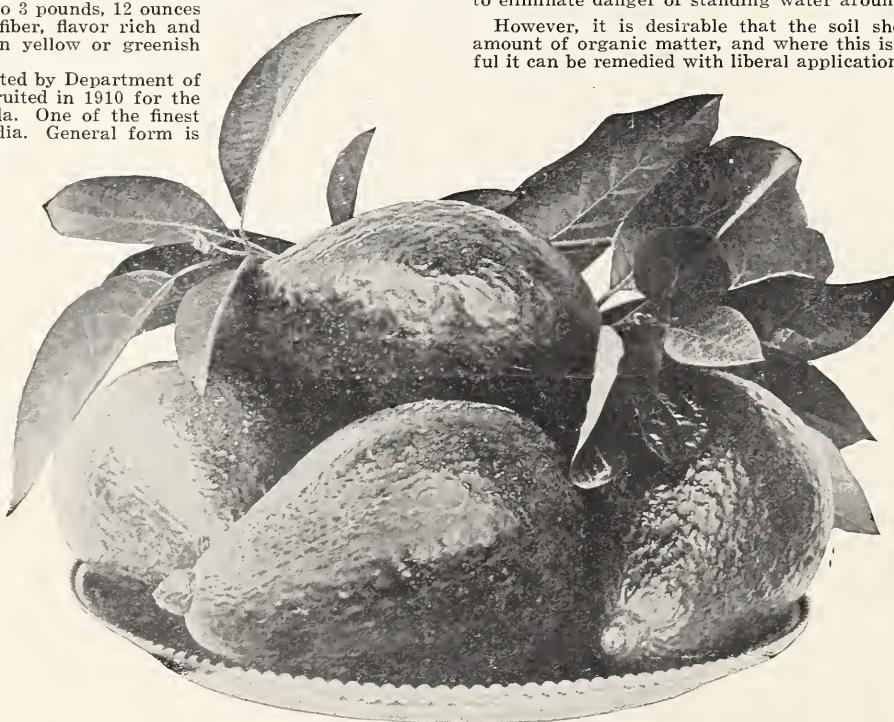
The Avocado is unquestionably Florida's most valuable food-crop, acre for acre. It ranks with milk and eggs and is fully equal to lean meat, and in addition has the medicinal quality of a soothing, laxative character, being easily assimilated by the most delicate digestion.

In serving this salad fruit in Florida it is customary to add either just salt or pepper or lime juice, or combinations of these. We recommend a lime or lemon tree with every planting of Avocados for home use, or, where neither of these would be hardy, a Calamondin tree, or Eustis Limequat.

Culture.—The Avocado succeeds on a wide range of soils, from quite high lands to relatively low ones if sufficiently well drained to eliminate danger of standing water around the crown-roots.

However, it is desirable that the soil should contain a large amount of organic matter, and where this is not naturally plentiful it can be remedied with liberal applications of muck, well-rotted manure, or similar materials.

Good preparation for Avocados is very desirable — indeed essential for good results. Dig a hole 2 feet deep and 3 feet across, being sure to get through any hardpan, and fill in with top soil, incorporating liberal applications of well-rotted manure if obtainable, or well-aerated muck of good quality, marl or an equivalent amount of lime by analysis, as well as a pound or so of good commercial fertilizer from organic base, such as blood-and-bone, tankage or something of the kind. Unless drainage of the land is good, mound the trees up 10 to 18 inches above the general level, making the mounds about 5 feet across. This will serve to shed surface water from



Avocados—The Remarkable Tropical Salad Fruit



Royal Palm Nurseries, Oneco, Fla.

the crown-roots anyway. Or better than just mounding would be to plow the land into ridges and dead-furrows in the direction of the best outlet.

As the Avocado is partial to organic fertilizer, and as the nitrogen-gathering cover-crops are a cheap and effective form of fertilizing, we recommend the growing of such legumes as beggarweed, cowpea, velvet bean, etc., as much as possible in the scheme of culture adopted.

Our Avocados are all box grown, the only rational way to retain all the root-system and permitting shipment to any point in perfect safety. In planting trees so grown, care should be exercised to disturb the roots as little as possible. After removing bottom board, set the boxed tree in the place prepared for it so the soil after planting will come about 1 inch above the soil level in the box, split one side with a hatchet, pull up the box, packing the soil carefully around the roots. After planting, mulch the ground well with any coarse material available, taking care not to have it close to the stems—this might encourage both insects and disease.

For remarks on frost protection see page 6 of catalog. It may seem paradoxical to talk of protection for the hardier Avocados, especially in South Florida, but while young these trees should be so cared for—even though they might be perfectly hardy in later years, for the first two or three winters it is always good policy to take no chances where possibility of such injury exists.

PRICES ON AVOCADOS

(All budded and grafted stock is box-grown)

BARKER, FAMILY, and TRAPP. \$1.50 each, \$13.50 for 10.

FUERTE, GANTER, GOTTFRIED, HARMAN, NORTHROP, SAN SEBASTIAN, and PUEBLA, \$2 each, \$18 for 10.

^ EAGLEROCK, LULA, NIMLIOH, and QUEEN, \$2.50 each, \$22.50 for 10.

MIXED FLORIDA SEEDLINGS, box-grown, 50 cts. each, \$4 for 10.

MEXICAN SEEDLINGS. P. 50 cts. each, \$4 for 10.

Tropical South American ("West Indian") Type

This is the most tender of the three groups of Avocados, showing pronounced injury at 28 degrees Fahr. They may, however, be grown safely in a considerable area of the state where natural protection is best, as on the East Coast below Ft. Pierce, the West Coast at protected places south of the Caloosahatchee River, and at other specially protected places throughout extreme South Florida. The special characteristics of this class, aside from susceptibility to frost, are a thick, leathery skin that separates readily from the flesh; the flesh is not as high in fat content as the Guatemalan; and the seeds are large and often loose in the cavities. The following are the best of this group:

BARKER. A splendid new variety, originating at Bradenton, closely resembling Pollock as to general appearance, size and quality, but a heavy and constant bearer, and probably more hardy. Season, October into December. Weight of fruit from 1 to 3 pounds; green-skinned.

FAMILY. This is the earliest to ripen of this group we are listing—from early July to last of September. The flesh is greenish cream-colored, of mild, pleasant flavor, but not very rich. In form it is slender, pear-shaped; in color, maroon-red; seed, large and tight in cavity. Tree productive.

TRAPP. This is the variety most commonly planted in Florida, probably comprising 90 per cent of the groves of budded trees. The fruit is medium in size, 1 to 1½ pounds in weight, smooth, green skin, seed somewhat loose in cavity. Flesh greenish yellow, free from fiber, and of rich, pleasant flavor. The fruits commence ripening in October and hang on to the first of the year and sometimes considerably longer.

THE HARDIER AVOCADOS Guatemalan Type

This is intermediate between the South American and hardest Mexican types, and from the commercial viewpoint bids fair to succeed the tropical varieties in point of favor with the planter, both because of the larger area in which it can be planted, the character of the skin which makes it an unusually good shipper, and the lateness of the ripening season. This latter point is not yet fully established in respect to all varieties, but the seasons we indicate are probably fairly close approximations.

In hardness this group is probably about like the lemon, possibly much more hardy. However, because of the fact that this type, contrary to the others, blooms in late spring and carries its fruit over the following winter, ripening the next spring or summer, special attention should be accorded the consideration of protection, naturally by location, or artificially. The skin is characteristic, very thick, even to the point of being woody and brittle, and usually more or less rough. The flesh is considered better on the average than the South American type, being somewhat richer and more oily, though not as much so as the Mexican. The seed

is not large in proportion to the size of the fruit and is seldom loose in the cavity. It is an excellent shipper, and for this and other reasons may supplant the more tender varieties on the markets. Following are the varieties we are handling which from present knowledge we consider best adapted to Florida planting:

EAGLEROCK. A green Avocado nearly round in shape and weighing about 1½ to 2 pounds. Season March and April. Quality of the best.

FUERTE. This variety originated in Mexico, and is now considered a hybrid of the Guatemalan and Mexican types, is of unusual hardness for the former type and at present a general favorite for orchard planting in California, the fruit ripening here from late November to March. The fruits are oval in shape, weigh about a pound each, with a green skin, rough in surface, and thick in texture. The flesh is yellow, smooth and buttery, rich in flavor (analyses showing 25 per cent fat), with a small tight seed.

LULA. A late ripening sort—December to March—in form pear-shaped and color green. It weighs 1 to 1½ pounds, packing 28 to 46 to the crate. A Guatemalan-Mexican hybrid, it has about the same degree of cold-resistance as Fuerte, possibly more.

NIMLIOH. Introduced from Guatemala by the Department of Agriculture, fruited out in Florida and found very desirable. Season of ripening February and March; green-skinned; weight 1½ to 2½ pounds; shape oblong or oval.

QUEEN. Purple fruit weighing about 1¼ pounds, pear-shaped, flesh rich and nutty-flavored, and seed small and tight in cavity. The variety is one of the most promising for Florida growing. Spring ripening; prolific.

Mexican Type

Because of its extreme hardness this type should receive special consideration from every home-owner in the central and northern portions of the state. From the commercial aspect they are usually considered of little value, chiefly because of their small size, but as the varieties we list of this type are so very resistant to cold, vigorous and remarkably productive, and of such rich flavor and fine quality, they are absolutely indispensable. Practically hardy in maturity over the greater portion of the state, every home place, in town or country, outside of the range of the more tropical sorts, should have at least one to three trees of this delicious salad fruit, and in conjunction with them should be planted a Calamondin orange. This type bears earlier than the others, in seedlings as well as budded trees, and specimens have been known in some instances to have produced crops of 4,000 fruits to the tree. The skin of the fruit is thin, and the foliage has an anise-like odor when crushed that differentiates this group from any other.

GANTER. The famed \$30,000 tree in California is the original seedling from which the budded trees are taken. Fruit is small, 3 or 4 inches long, and weighs from 4 to 9 ounces; skin green; flesh very rich, 25 per cent of fat; ripens early (summer) and very prolific.

GOTTFRIED. Originated at the Plant Introduction Garden in Miami. Original tree is of large size and has never been injured by cold. Fruit pyriform, weighing from ¾ to 1¼ lbs. each, ripening from August to October. Skin of fruit very dark-brownish purple; seeds small, fruit of exceedingly good quality and rich.

HARMAN. Fruit rather small, with a smooth, glossy, greenish-purple surface and seed loose in the cavity. The creamy-yellow flesh is of fine, buttery quality and rich flavor. The tree is erect and unusually vigorous, very heavy bearer, ripening its fruit here in July and August.

NORTHROP. Slightly smaller in size than Harman, it is more pear-shaped and the surface is smooth, glossy, and of purplish-black color. The cream-colored flesh is of fine, smooth texture and rich flavor, analyzing 25 per cent fat. Seed is medium in size and tight in cavity. The tree is very hardy and vigorous, ripening its fruit in August and September in Florida, with a second lighter crop in spring. This alone would mark it as one of the most valuable sorts for the Florida planter.

PUEBLA. Erect and rapid growing, this variety is a young and prolific bearer. Somewhat pear-shaped but not necked, the fruit weighs about 10 to 12 ounces each, with a smooth, tough, thick skin, smooth, rich flesh, and with small seed tight in cavity. Season, September to November.

SAN SEBASTIAN. This variety, unlike the preceding ones of this group, originated in Mexico. The fruit is oval and larger in size than some of the others, weighing up to a pound. The skin, too, is rather thicker and black in color. Seed medium in size and tight in cavity; the yellow flesh is of fine, rich flavor. The tree is a strong, rapid grower and unusually hardy. Season in Florida, June and July or later.

VANGUERIA EDULIS. Voa-Vanga. T. Madagascar. A small deciduous tree with large, shining, light green leaves and producing quantities of smooth, round, greenish-yellow fruit the size of small apples, with agreeable, sweetish-acid, juicy pulp. 50 cts. each, \$4.50 for 10.

ZIZYPHUS MISTOL. T. Argentina. A small, spiny tree attaining 30 feet, closely related to the jujube of commerce, and bearing small, edible fruit with large seeds. P. 50 cts.

The Tropical Grounds Book



Group II. Fruiting, Shrubs, Vines and Other Plants

ANANAS SATIVUS. Pineapple. T. Those desiring large quantities of either slips or suckers should write us, stating number required, and get a net estimate. As this splendid tropical fruit can be grown so easily—a few plants can be set around under orange and grapefruit trees—they should be more generally considered by the home owner. Fruit of most excellent quality can be produced this way over most of South Florida, with relatively little care or attention beyond most simple needs. Rooted plants in stock as follows:

RED SPANISH. The ordinary commercial sort so largely grown. 15 cts. each, \$1.25 for 10, \$10 per 100.

SMOOTH CAYENNE. The only sort without spines on the leaves. A very valuable sort, now extensively grown in the Tropics, both for shipping fresh and canning. This is a fine variety for the home garden, as it bears almost any time throughout the year. 20 cts. each, \$1.75 for 10, \$15 per 100.

CARICA PAPAYA. Papaw or Melon Fruit. T. Tropical America. Fast-growing, herbaceous and branchless tree, 15 to 20 feet, of ornamental foliage and bearing numbers of delicious, melon-like fruits, which are highly esteemed for dessert and as an aid to digestion because of the papain they contain. Plants are pot-grown from choice seed. As the flowers are dioecious, several plants—we recommend at least five—should be planted to the group. P. 15 cts. each, \$1.25 for 10.

CARISSA GRANDIFLORA. Amatungula. T. Natal. Handsome ornamental evergreen shrub, of glossy green foliage with elegant white flowers and conspicuous scarlet fruits about 1½ inches long, which can be eaten raw or can be cooked like cranberries, which fruit it resembles in taste. Plant is thorny, and is admirably adapted to hedge purposes wherever hardy. Grows exceptionally well near the seacoast, standing both wind and spray. P. Layered plants from fruiting bushes, 50 cts.

COCCOLOBIS UVIFERA. T. Sea-grape or Shore-grape. South Florida coasts and West Indies. Medium to large-sized tree, one of the most beautiful in the Tropics, having large, round leaves with red veins and petioles. Fruit purplish red, borne in spikes like currants, ripening in September, and from which a fine jelly is made. 35 cts. each, \$3 for 10.

EUGENIA UNIFLORA. Surinam Cherry. T. Large shrub bearing rather small, bright, waxy-red fruits of agreeable subacid flavor, eaten raw or as jelly. Under high culture bears two heavy crops yearly. Nice for growing in pots and tubs at the North as foliage and fruit are attractive at all times. Pot-grown seedlings from best fruit. 25 cts. each, \$2 for 10; larger, 35 cts. each, \$3 for 10.

BLACK-FRUITED SURINAM CHERRY. Similar to preceding except in color. P. Seedlings, 35 cts. each, \$3 for 10; larger, 50 cts. each.

MONSTERA DELICIOSA. Ceriman. T. Trinidad. A climbing aroid plant with enormous, handsome pertuse leaves and bearing fruits about the size of banana.



Cattley Guavas — Good When Prepared So Many Ways



Tropical Guavas

nas, the "coats" of which are as easily removed, and resembling in taste an imaginary cross between pineapple and banana. P. \$1 and \$1.50.

PASSIFLORA EDULIS. Granadilla. T. Brazil. A strong-growing vine with ornamental foliage and handsome white and purplish flowers, followed by a purple fruit 1¼ to 2 inches thick; this has a hard rind; cavity filled with a delicious, juicy pulp in which are numerous small seeds. Makes a splendid porch vine. The juice is used in cold drinks, sherbets, and ices, also in cookery. While the top is liable to frost injury, the roots will stand anywhere in South Florida and quickly renew the top. P. 35 cts. each, \$3 for 10.

P. LAURIFOLIA. Water Lemon. T. West Indies. A hand-some climber with laurel-like foliage and bearing fruit the size of hen eggs, with smooth, yellow rind when ripe, and containing a sweet, watery pulp. An excellent vine for decorative purposes. P. 35 cts.

PSIDIUM Guava. A grand fruit in all its varying forms, even the tropical sorts being of special value to Florida because of their surety to sprout up after being cut down by frost, and bearing after one frostless winter.

The fruit is always borne in enormous quantity and varies in size, color, acidity, juiciness, and seediness, our aim being to propagate from the very finest types we can secure, and to offer only the best. We grow many thousands of plants yearly from seed only, and offer the following kinds, all of which are valuable for cooking, canning, preserving, making jelly, and the like, or may be used in the fresh state with sugar and cream, being only second to finest peaches. This is an especially interesting prospect for commercial fruit growers, and one that will be extremely profitable once this fruit is more widely known. All stock is pot-grown and may be transplanted any time.

Hardier Cattley Type

P. CATTLEYANUM. Red Cattley Guava. ST. A vigorous evergreen shrub standing sharp frosts, having handsome, broad, evergreen leaves. Fruit small, averaging about an inch in diameter; borne in enormous masses, ripening in August. Color a pretty red. Fruit is juicy, and subacid, good in many ways. A fine plant, also of especial value for making hedges in South Florida, as it is unusually free from insect pests, such as white flies and scale. Pot-grown, small, 15 cts. each, \$1.25 for 10; strong plants, 25 cts.



Royal Palm Nurseries, Oneco, Fla.

each, \$2 for 10; heavier, 35 cts. each, \$3 for 10; extra heavy, 50 cts. each, \$4.50 for 10.

P. LUCIDUM. Chinese or Yellow Cattley Guava. ST. Resembles Cattley Guava rather closely in growth, though not so compact and bushy, bearing an abundance of yellow fruit somewhat larger than Cattley and sweeter. Prices same as for preceding.

Common Tropical Guavas

PSIDIUM GUAYAVA

Fruits are variable in size and shape, sweet, subacid and sour, and largely in demand for making jelly, marmalade, cheese, and all manner of preserves. We grow this largely, and all from seeds of the most distinct and valuable fruits.

SOUR. For general culinary purposes—jelly, preserves, etc. 15 cts. each, \$1.25 for 10, \$10 per 100; larger, 25 cts. each, \$2 for 10, \$18 per 100.

TABLE or DESSERT GUAVAS. These are mostly sweet to subacid sorts suitable for eating out of hand and for table use. 15 cts. each, \$1.25 for 10, \$10 per 100; larger, 25 cts. each, \$2 for 10, \$18 per 100; extra-large size, 35 cts. each, \$3 for 10.

PUNICA GRANATUM. Pomegranate. HW. A large-sized fruit with thin, tough rind. The flesh is a beautiful wine-color, crisp, sweet, and of exquisite flavor. Very attractive as a shrub, with flowers of reddish-orange effect. Strong plants. 3 to 4 ft., 50 cts. each, \$4.50 for 10.

RHODOMYRTUS TOMENTOSA. Downy Myrtle. H. The berry of this shrub is so valuable for culinary purposes, making a pie suggestive of huckleberry but with thicker, richer juice and of a flavor all its own, and makes a rich, fine jelly when blended half-and-half with Guava. P. 35 cts. each, \$3 for 10; larger, 50 cts. each, \$4 for 10.

RUBUS CUNEIFOLIUS. Blackberry. H. Native. A good strain of fine-sized fruit ripening in May and June. 15 cts. each, \$1.25 for 10, \$8 per 100.

R. HYBRIDUS. Northe Berry. Resembles the Dewberry in growth. Fruit purplish in color, good-sized and of exquisite flavor. Set 5 to 8 feet apart and train on a wire 3 or 4 feet high. Ripens in late April and May. 25 cts. each, \$2 for 10, \$15 per 100.

R. TRIVIALIS. Manatee Dewberry. H. A delicious black fruit of great value, ripening in late April and May. 15 cts. each, \$1 for 10, \$7 per 100.

UVARIA RUFA. T. Asia. A scandent shrub, related to our native Papaw, bearing clusters of 18 to 28 oblong, velvety berries, deep red when mature, containing a whitish, aromatic, acidulous, fleshy pulp. P. 50 cts. each, \$4 for 10.

VACCINIUM VIRGATUM. Orchard Blueberry. H. This is the fruit that, while attaining prominence in the horticulture of the state only recently, is unquestionably one of the most valuable brought forward in many years. While in reality a shrub, it attains a height of 10 to 12 feet, and is planted in rows 15 to 20 feet apart, and 10 to 12 feet apart in the rows, and cultivated like any orchard fruit. The berries average $\frac{1}{4}$ to $\frac{3}{8}$ inch in diameter, blue-black in color, and in quality equal to the best New England blueberries, from which they are scarcely distinguishable. The season lasts from late May to August. We cannot recommend this for high, dry lands to which the plant is not suited—it prefers a moderately moist soil—good corn land, and one at least slightly acid. In view of the scarcity of good berry plants in Florida, too much attention cannot be given to this matter—we urge careful and thorough investigation by all horticulturists, especially those interested in the growing of fruits for local markets. Good, strong plants, 50 cts. each, \$4.50 for 10, \$40 per 100.

VITIS ROTUNDIFOLIA. Muscadine Grape. HW. A very vigorous type of Grape, needing large, well-built arbors to support its great loads of fruit. This is the Grape for Florida and our Gulf Coast country generally. Set vines 15 to 20 feet apart and train up early on arbors 8 feet high. Make arbors of best material so that they will be permanent structures for many years. Prune out the dense part of these vines every November or December, so that light and air can get to all growth;

old, crowded vines are no good except along the edges of arbor in the newer growth. These vines all need pollen from the male muscadine or from male vines of *Vitus munsoniana*; the former very abundant in the Carolinas, the latter in South Florida. Especially valuable for securing proper pollination are bees, and for those contemplating the extensive growing of Grapes it would be well to provide for this accordingly.

Following is a select list of choice sorts which are doing splendidly in Florida:

Price of all sorts for strong 2-year vines, 40 cts. each, \$3.50 for 10.

FLOWERS. Of medium size, black, ripen very late, after all others are gone. Sweet; tough-skinned. An excellent sort for prolonging the Grape season.

JAMES. Berry very large, black, or purplish-black, very sweet. Ripe here in August and frequently has a second crop in October or November.

MISH. A new sort of medium size, in color purple. The earliest to ripen here. Has a delicate but rich flavor of the very highest quality. Where an early Grape is desired, this will be found most satisfactory.

SCUPPERNONG. Greenish-amber in color, of a delicious and distinctive flavor, this famous Grape is high in the estimation of all horticulturists, both as fruit and wine-maker. The berry is very large, ripening in August and early September. This fine variety should receive first consideration in every planting of Grapes.

THOMAS. Medium-sized fruit in small clusters but of fine quality. Makes exceedingly rich, fine-flavored grape-juice and is largely planted for this purpose.

"We are in receipt of the plans and are very much pleased with the arrangement." (Signed) J. C. MERRILL, Mgr., Plymouth, Fla.



Muscadine Grapes—The "Old Reliable" for Florida Planters



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Do you realize what charm there is about a garden pool—how simple of construction and relatively inexpensive it is? Probably no other element of a garden picture lends such fascination to it as does this out-of-doors mirror in the depths of which are reflected the giant pine and the stately palm, blue sky and fleecy, white clouds, gay flowers and a host of interesting semi-aquatic plants like Umbrella Grass and Xanthosomas and Alocasias, Ornamental Grasses and what-not. A few small fish—goldfish or just common minnows—will take care of the mosquitoes in summer.

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